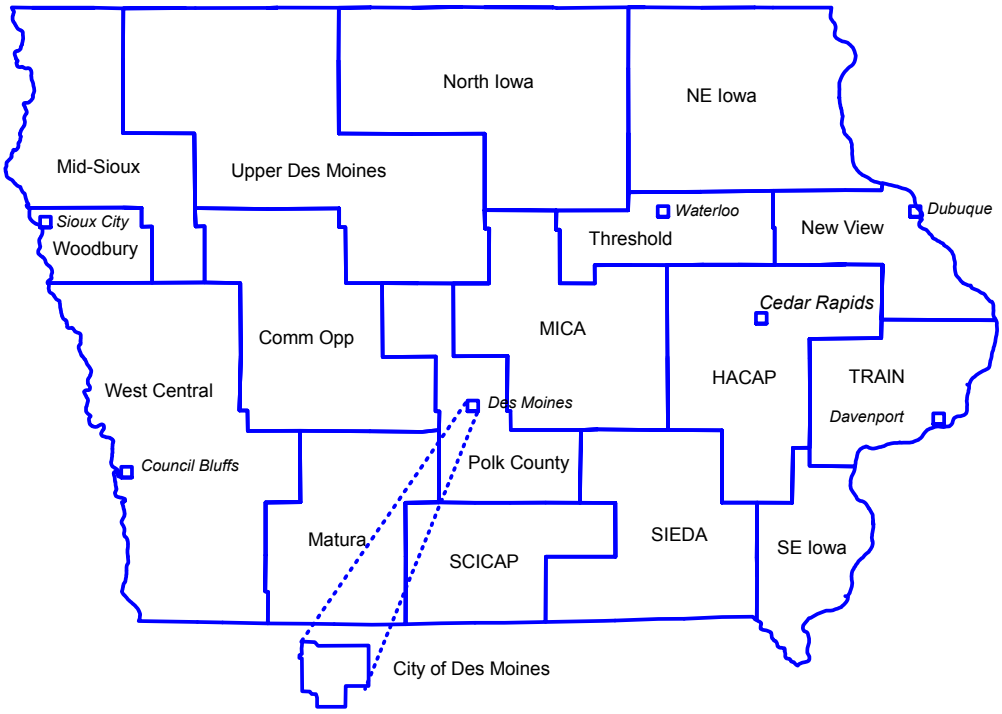
REPORT ON IMPACTS AND COSTS OF THE IOWA LOW-INCOME WEATHERIZATION PROGRAM – Calendar Year 2003

October 19, 2004

Iowa Community Action Agencies



DALHOFF AND ASSOCIATES
533 Marshall Circle
Verona, WI 53593

608-845-6551
fax 608-845-6544
gkdalhoff@compuserve.com

REPORT ON COSTS AND IMPACTS OF THE IOWA LOW-INCOME COLLABORATIVE WEATHERIZATION PROGRAM

Calendar Year 2003

October 19, 2004

Prepared for the
Iowa Statewide Low-Income Collaborative

by
Dalhoff and Associates
533 Marshall Circle
Verona, WI 53593
608-845-6551
fax 608-845-6544
email: gkdalhoff@compuserve.com

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1. EXECUTIVE SUMMARY

This report summarizes state and utility low-income weatherization program activity for households weatherized to completion during calendar year 2003. The report includes state, utility, and agency summaries of calendar year 2003 spending and impacts by measure, end-use, and fuel. The base data consisted of statewide program tracking databases of spending and measure installations for households completed during the calendar year 2003.

We estimated energy and coincident demand impacts for the program participants by adjustment factors to the engineering estimates that were developed for the 1992 program[1]. The gas and electric adjustment factors were derived from a series of fuel consumption analyses, including the 1992 and 1994 program participants. Gas adjustment factors were extended based upon fuel consumption analyses for completions during the period April, 1996 through March, 1997, September, 1998 through August, 1999, January through December, 2000 and 2001, August 2001 to August 2002, and September 2002 to September 2003. Refrigeration measure impacts were adjusted using the results of an electric fuel consumption analysis of January 2002 to January 2003 weatherization clients.

Utilities began funding incremental benefits for increasing the efficiency water heaters replaced for health and safety reasons. We assessed incremental savings for their expenditures. In addition, we developed estimates of savings that reflect the higher heating efficiency of new units that are free of scale buildup within the tank.

The impacts also reflect a revision of the diversified demand factors for electricity measures. The original factors were developed in 1992. The revised values reflect changes in system load factors due to mergers of utilities over the past decade.

Program Costs and Impacts

The WAP program installed measures in 1,824 households during calendar year 2003: measures with direct energy savings were installed in all but five of these. Program expenditures for labor, materials, and support decreased by 8% compared to expenditures during 2002, totaling $9.24 million in calendar year 2003. The average expenditure was $5,064 per household compared with $4,795 the previous year.

The measures installed by the program in 2003 are essentially unchanged from the 2002 program with two exceptions: capyslite bulbs are no longer being installed (compact fluorescent bulb installation rates increased as a result) and no water heater temperature reductions were performed. Notably, the installation frequency for high-efficiency heating replacement units (25%) now exceeds the rate for standard efficiency units (19%) for the first time in the history of the WAP program

The decrease in total funding (8%) combined with the increase in average expenditures (5%) resulted in 13% fewer households served, and reduced savings overall. First-year savings of natural gas totaled 437,603 therms -- a 14% decrease from 511,218 therms in CY 2002. First-year savings of electricity decreased by 22%, to 1,869,400 kWh from the 2,400,162 kWh in the CY 2002 program. About half of the decrease in electricity savings is attributable to downward adjustments of the refrigeration measure

[1] see the following Wisconsin Energy Conservation Corporation reports for a full description of the estimation routines and derivation of the adjustment factors:

- Estimated Low-Income Program Impacts in Iowa, June 14, 1993;
- An Evaluation of Iowa's Low-Income Weatherization Efforts, August 8, 1994; and
- An Evaluation of the 1995 Iowa Low-Income Collaborative Weatherization Program, November 5, 1996.

impacts. The installation rate for refrigeration measures continued to increase: 44% of households received refrigeration measures in the CY 2003 program compared to 36% of households in the previous year. Utility-funded measures were responsible for a higher percentage of energy and demand savings: 43% of all energy and demand savings for electricity (35% in CY 2002), and 41% of natural gas savings (37% in CY 2002).

In addition to utility-provided fuels, the CY 2003 program saved 59,678 gallons of propane. Fuel oil savings totaled 3,559 gallons in CY 2003.

First-year client energy cost savings totaled $455,102. The average savings was $250 per household, increasing slightly from $247 per household in CY 2002.

On average, the program saved 1,031 kWh of electricity for 1,813 households with electricity impacts – this is an 11% decrease in the average electricity savings for households with electricity impacts. The program saved an average of 276 therms of natural gas for 1,814 households with gas impacts (essentially unchanged from CY 2002), 278 gallons of propane in 215 households with propane impacts, and 142 gallons of fuel oil in 25 households with fuel oil impacts.

Utilities contributed $2.21 million in expenditures, or 24% percent of the total program expenditures. Utility-funded measures were installed in 1,214 households. Savings from utility-funded measures averaged 668 kWh in 1,196 utility-funded households with electricity impacts, and 173 therms in 1,037 utility-funded households with gas impacts (both values are essentially unchanged from CY 2002). Utility-funded measures yielded first-year client cost savings or $169,191, averaging $139 per household overall. Electricity savings averaged $52 per household for utility-funded electricity measures, and $103 for those receiving gas measures.

Fuel Consumption Analysis Results

The natural gas savings reported herein have been adjusted at the agency level. The adjustment factors were derived from a fuel consumption analysis of recent program participants. The factors were applied to the estimated natural gas, propane, and fuel oil heating measures, and to natural gas and propane water heater measures. Along with providing better assessments of agency-level impacts, this procedure also provides a check on the accuracy of the algorithms used to estimate savings. The fuel consumption analysis showed 23.0% savings ± 1.0% at 90% confidence for natural gas measures installed in CY 2003.

A fuel consumption analysis was conducted to assess savings for refrigeration measures for the CY 2002 program participants. Observed savings were approximately 64% of those determined in the pilot program evaluation. Measure-specific realization rates were developed for refrigerator exchanges, freezer exchanges, and removed appliances. Refrigerator and freezer exchanges averaged 869 kWh and 662 kWh, respectively after the adjustments. Appliance removals averaged 1,022 kWh and 713 kWh for refrigerator and freezer removals, respectively after the adjustments.

Changes in Reporting

The content of the report and data sources are similar to previous years, with the exceptions that refrigeration measures savings were adjusted based upon results of the electricity fuel consumption analysis.

2. SUMMARY OF PROGRAM IMPACTS AND EXPENDITURES

Program spending totaled $9,236,687 for materials, labor, and support in houses weatherized to completion during calendar year 2003, down by 7.8% from $10,017,085 in 2002 (see Figure 2.1, totals exclude administration expenditures). The number of households weatherized in 2003 decreased by 12.8%, from 2,089 in 2002 to 1,864 in 2003. Utility expenditures totaled $2,209,638, a 4.6% increase from expenditures of $2,108,654 in 2002.

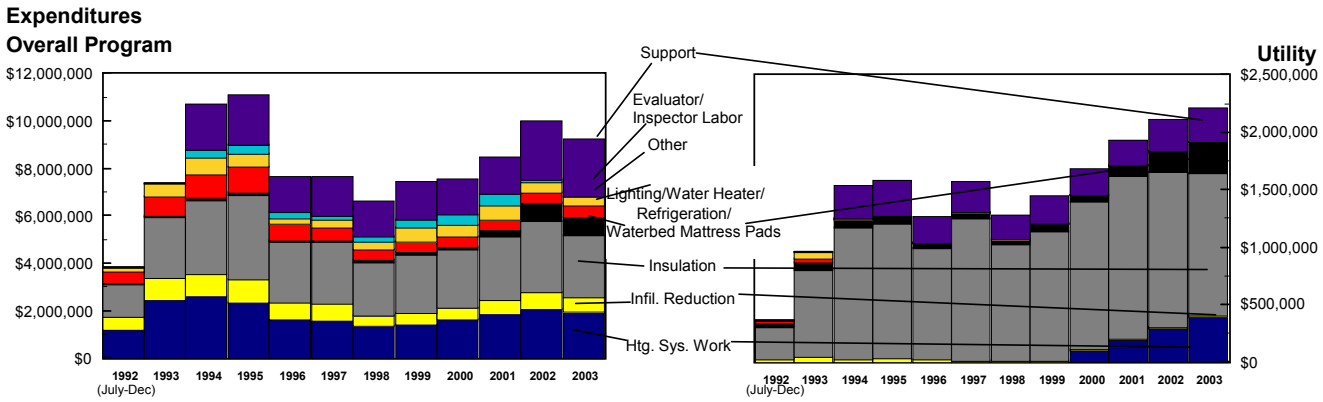


Figure 2.1 Overall program and utility spending.

The reduction in total households weatherized and adjustments to refrigeration measure savings translated into a 13% reduction in aggregate program energy savings, from 64,859 MBtu in 2002 to 56,156 MBtu in 2003 (Figure 2.2.) Utility-funded energy savings decreased by 7.0% to 20,823 Mbtu in 2003, mostly attributable to the downward adjustments in adjustments in refrigeration measure savings.

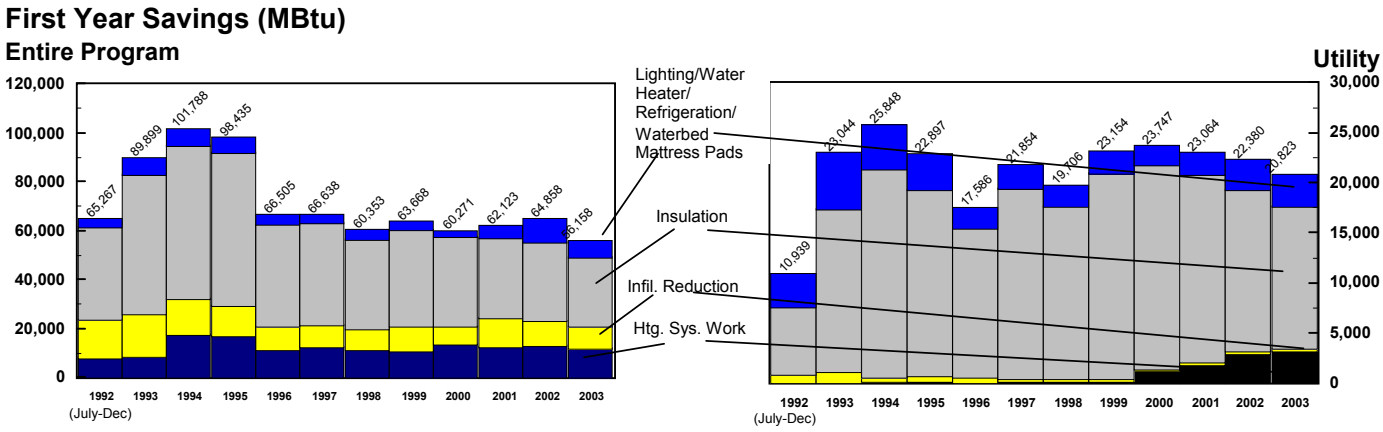
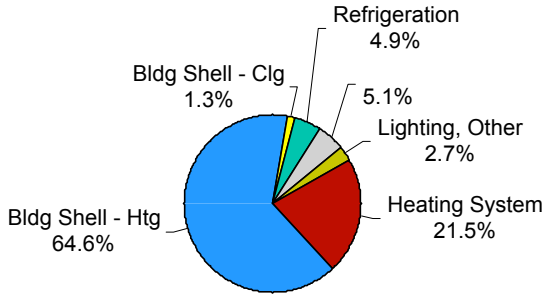
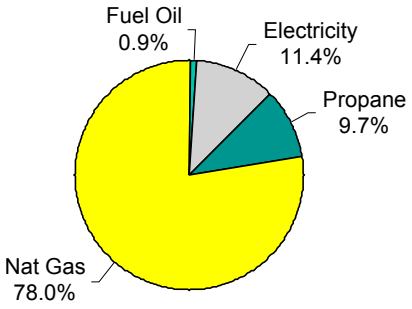


Figure 2.2 Overall program and utility energy savings.



By End-Use



By Fuel Type

Total of 56,156 MBtu savings, average of 30.8 MBtu per household.

Figure 2.3. Overall energy savings by end-use and fuel type.

The 2003 program saved an average of 30.8 MBtu per household (Figure 2.3.) In fuel units, first-year savings totaled 437,603 therms of natural gas, 1,869,400 kWh of electricity, 59,678 gallons of propane, 3,559 gallons of fuel oil. On an Mbtu basis, natural gas savings continues to dominate savings at 78%. Electricity savings accounted for 11.4% of savings on an Mbtu basis in the CY 2003 program, and propane savings accounted for 9.7%.

Nominal total first year client energy bill savings declined from $516,973 in 2002 to $456,365 in 2003 (Figure 2.4a.), in proportion to the number of households served. The average first year client bill savings increased slightly, from $247 in 2002 to $250 in 2003.

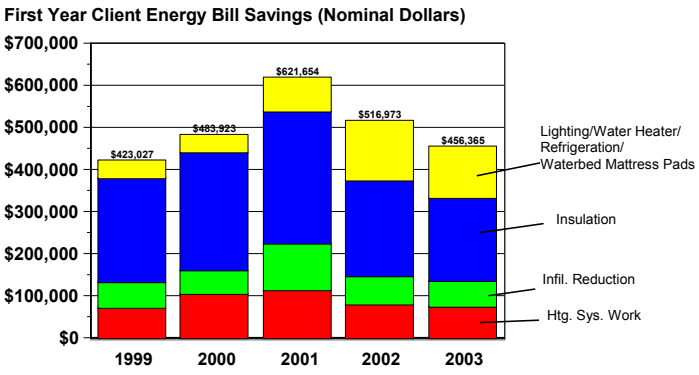


Figure 2.4a First-year client cost savings by year.

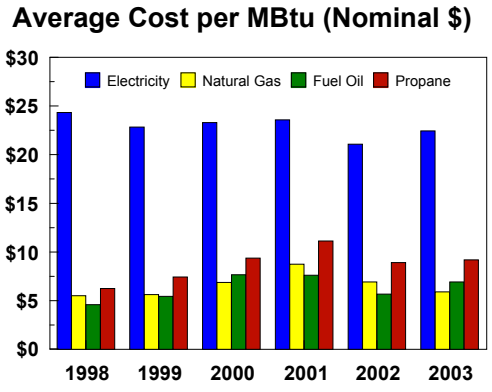


Figure 2.4b Average fuel costs

Utility Funding Impacts

Utility funding totaled $2,209,638, which represents a 4.5% increase from $2,108,654 spent during 2002. Utility expenditures accounted for 24% of the total low-income program expenditures, up from 21% in 2002.

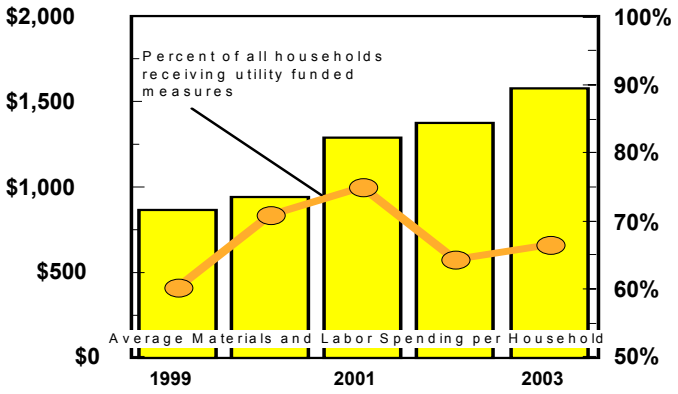


Figure 2.5. Penetration and average utility spending.

Utility funding reached 1,214 households, or 67% of all households treated by the program, up slightly from 64% in 2002. The average utility expenditure for materials and labor was $1,579 for households receiving these measures: the average increased by 13% from $1,373 in CY 2002 (Figure 2.5.) Utility support expenditures averaged an additional $241 per household receiving utility-funded measures.

Utility-funded measures accounted for 37% of MBtu savings in 2002 compared to 35% in 2002. These measures were responsible for 44% of all energy and demand savings for electricity and 41% of gas savings. Utility-funded measures saved an average of 690 kWh of electricity for the 1,196 households with utility-funded electricity measures, compared with an average of 648 kWh in 2002. These measures saved 173 therms of natural gas for the 1,037 households with utility-funded natural gas measures, also essentially unchanged from an average of 172 therms in 2002. In aggregate, utility-funded measures installed in 2003 reduced peak electricity demand by 145 kW in the summer and 158 kW in the winter, and provided 1,853 peak-day therms of gas savings.

Utility-funded measures yielded first-year client cost savings or $169,190, averaging $139 per household overall. Electricity savings averaged $52 per household for utility-funded measures, and $103 for gas measures.

Average Household Expenditures and Impacts

Average household expenditures increased by 5.6% to $5,065 from $4,795 in 2002 (Figure 2.6.) Insulation accounted for the largest proportion of total expenditures, followed by heating system work and support.

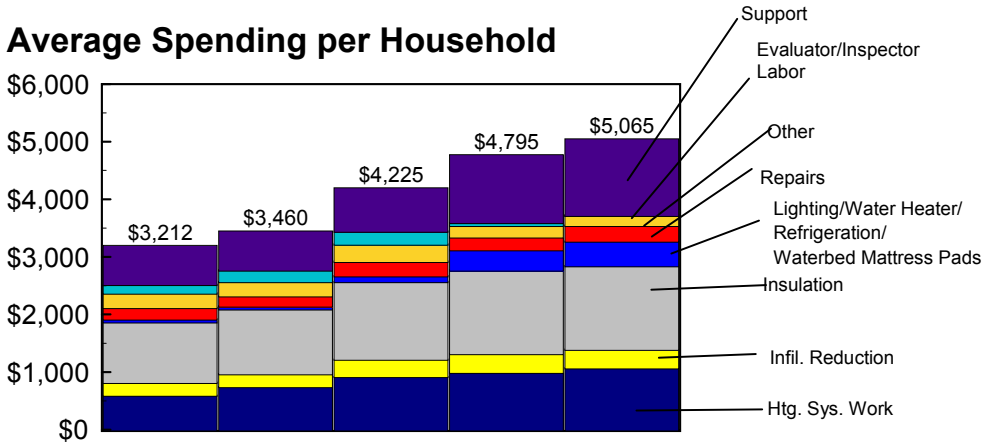


Figure 2.6. Average spending per household.

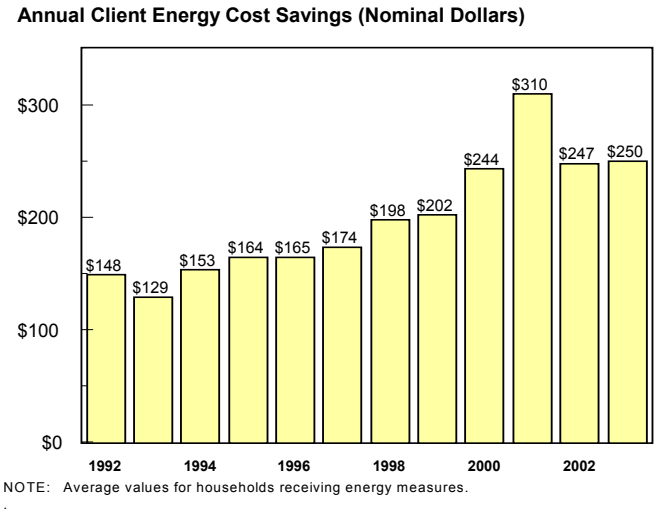


Figure 2.7. Client energy cost savings by end-use.

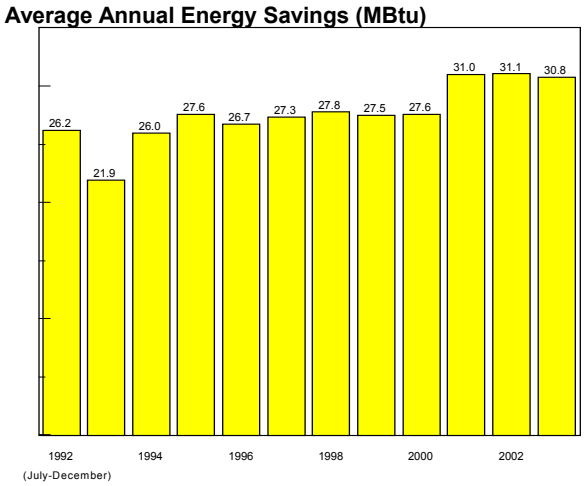
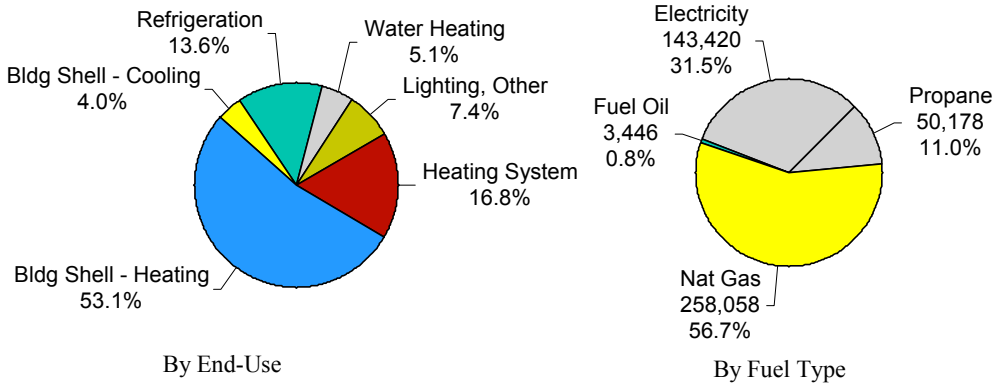


Figure 2.8. Average household annual energy savings.

First-year client fuel bill savings were $250 for households receiving energy savings measures for the CY 2003 program (Figure 2.7). Household average savings dropped slightly to 30.8 MBtu for clients weatherized during 2003 (Figure 2.8).

The vast majority of client energy cost savings is attributable to space heating savings, which accounted for about 70% of total client energy cost savings (Figure 2.9.) Refrigeration measures accounted for 14% of the energy cost savings. Electricity cost savings now accounts for about 32% of all client fuel bill savings.



Total of $455,102 in first-year client bill savings, average of $250 per household.

Figure 2.9. Overall client fuel bill savings by end-use and fuel type.

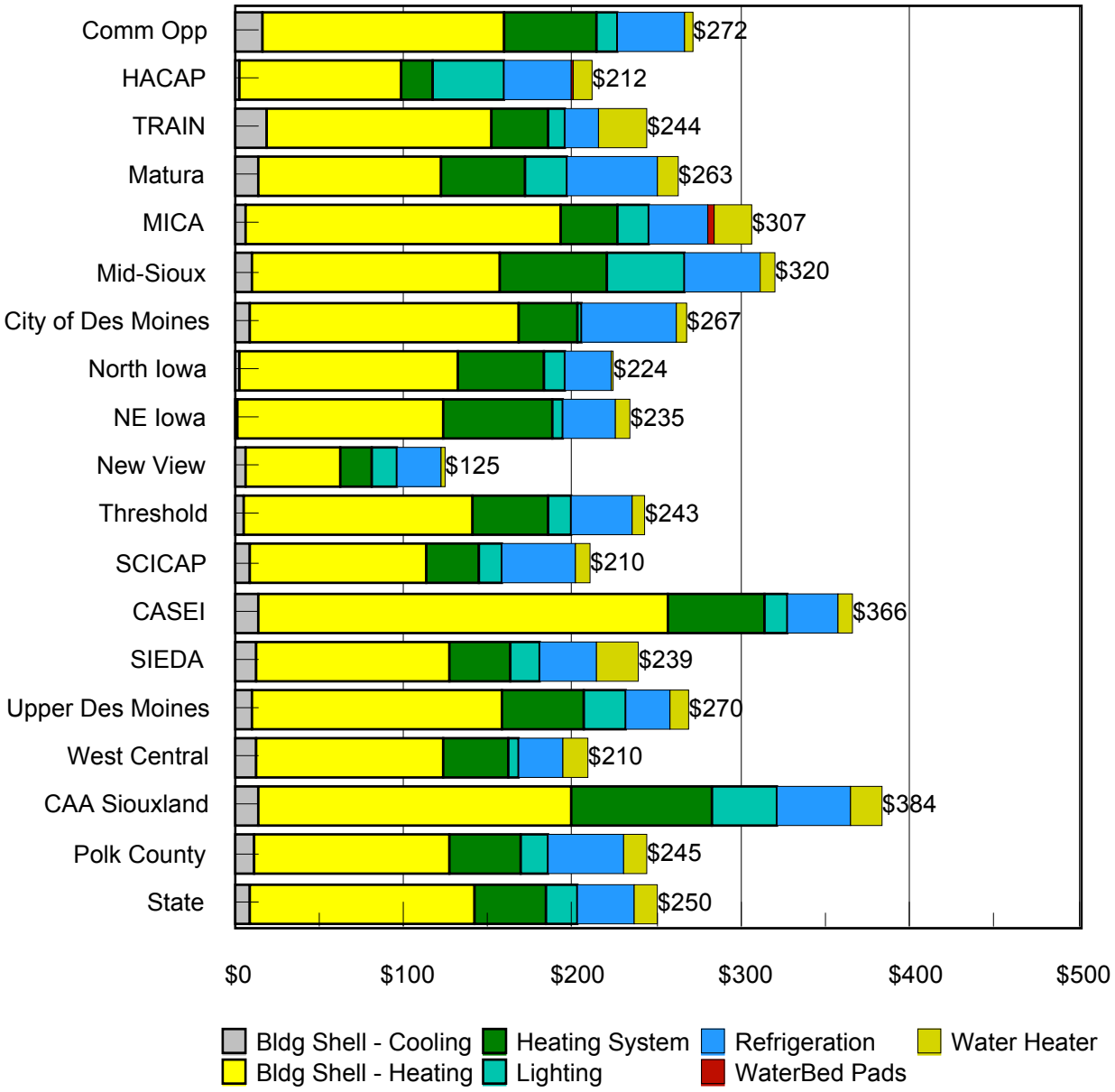


Figure 2.10. Average annual energy cost savings per household with energy savings

Figure 2.10 shows the average annual energy cost savings by agency. The series are arranged from left to right in the bar according to top to bottom and left to right in the legend, e.g., Bldg Shell Cooling, then Bldg Shell Heating, then Heating system, etc.

The natural gas savings attained by each agency were adjusted according to results of the natural gas and electricity fuel consumption analyses (see Section 3, Assessment of Agency-Specific Adjustment Factors). A fuel consumption analysis was not run for electricity or deliverable fuels (propane, fuel oil, and other fuels).

The average first-year client bill savings was widely varied across agencies, from lows of $125 per household (New View) to a highs of $366 for CASEI (formerly known as SE Iowa) and $384 for Siouxland (formerly Woodbury County).

Note that a number of factors affect the values shown in this chart, factors beyond quality or intensity of weatherization treatment. Consequently, these results should not be used as a basis for comparing the quality, attention to detail, dedication, or other factors of agency performance.

The major reasons for variations in average client cost savings include:

- regional variations in levels of pre-existing insulation which reduces savings potential for northern and central region households (see the report on the report of the 1997 weatherization program for details)
- differences in fuel costs -- utility rates vary from one utility to another and some agencies serve a greater percentage of rural clients who often rely upon the more expensive deliverable fuels for heating and water heating;
- climate variations across the state mean that some agencies may see greater heating (and cooling) fuel savings than others.
- differences in the average size of the houses treated -- agencies that treat larger (but fewer) houses will have higher average savings per house.

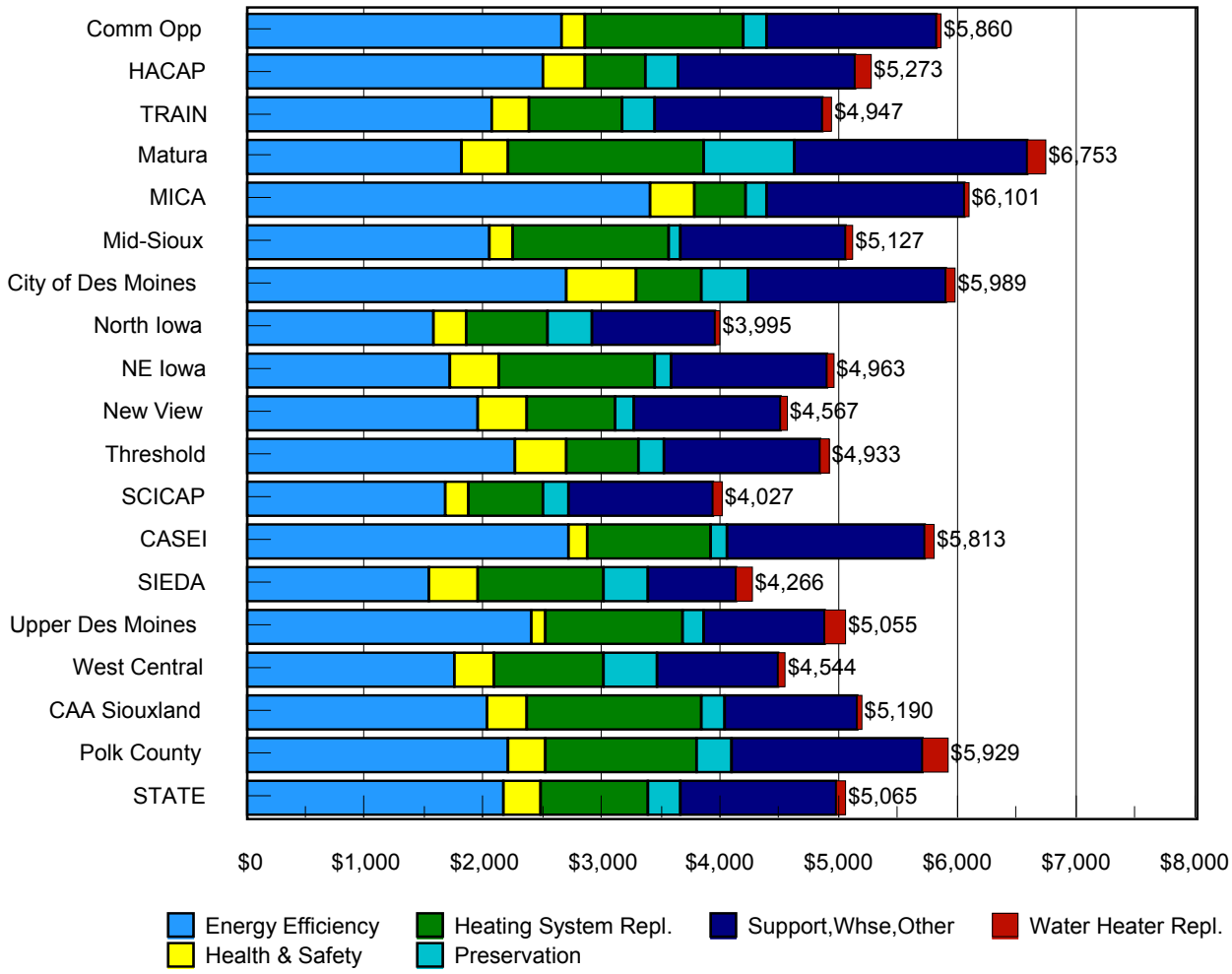


Figure 2.11. Average spending across all households.

Figure 2.11 shows the average expenditures for all households in 2003. Matura and MICA each averaged over $6,000 per dwelling. North Iowa's average expenditures was lowest at $3,995, but was up considerably more than CY 2002 levels, at $2,967 per dwelling. The statewide average expenditure was $5,065 per dwelling.

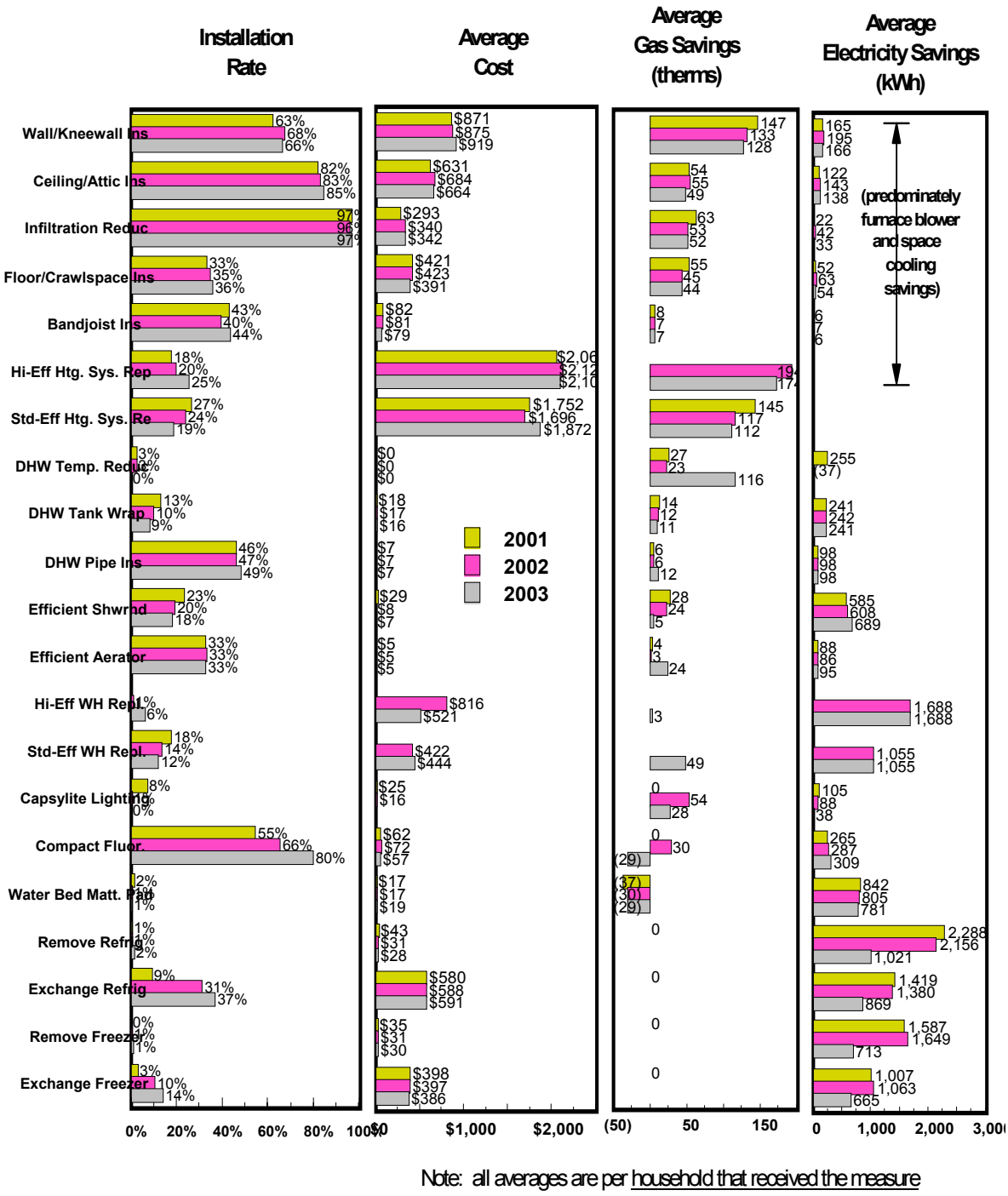


Figure 2.12. Installation frequencies, average costs, and average energy savings.

The average installation rates, costs, and savings for energy efficiency measures for 2001-2003 are shown in Figure 2.12. Note that for 2003, the average savings for refrigeration measures reflects the billing analysis adjustments to savings: the CY 2001 and 2002 estimates were based upon average savings from the pilot program (see Section 3 for further discussion).

Table 2.1 shows the average installation rates of all measures, from 1992 through 2003.

Table 2.1. Percentage of houses receiving measures

Measure	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Insulation and Infiltration Reduction Measures												
Wall/Kneewall Insulation	48	53	52	57	59	59	56	51	53	63	68	66
Ceiling/Attic Insulation	73	72	71	72	72	73	72	69	74	82	83	85
Infiltration Reduction	87	86	82	84	86	87	89	84	82	97	96	97
Floor/Crawlspace Insulation	30	29	30	32	34	33	32	29	30	33	35	36
Bandjoist Insulation	44	42	41	42	43	41	39	32	35	43	40	44
Damming Material	Na	Na	Na	Na	Na	5	24	28	31	33	0	0
Unspecified Insulation	14	3	0	0	14	38	52	60	67	76	73	74
Heating System Measures												
Htg. Sys. Replacement	26	21	26	28	30	33	31	29	39	44	44	44
High Eff Htg Sys Repl	Na	Na	Na	5	4	6	7	5	8	18	20	25
Std/Unspec Eff Htg Sys Repl	Na	Na	Na	23	26	26	24	24	31	26	24	19
Htg. Sys. Tune and Clean	61	63	63	64	66	61	59	53	52	63	62	62
Heating System Safety Check	Na	Na	33	46	47	45	55	55	60	25	35	28
Htg. Sys. Other	35	59	37	37	31	30	29	15	7	25	43	46
Duct Insulation	Na	Na	1	2	2	3	2	2	2	2	0	0
Duct Sealing	Na	Na	41	30	26	22	20	23	23	28	58	57
Water Heater Measures												
Water Heater Turndown	11	7	11	11	11	9	10	4	3	3	3	0
Water Heater Wrap	18	20	26	27	21	14	15	12	10	13	10	9
Pipe Wrap	24	27	41	49	43	40	44	38	40	46	47	49
Shower Head	12	16	22	23	20	18	19	18	14	23	20	18
Faucet Aerator	23	30	41	43	33	30	31	27	27	32	33	33
Water Heater Replacement											15	19
Std-Eff Wtr Htr Repl.				Combined with water heater repair							14	12
Hi-Eff Wtr Htr Repl.											1	6
Water Heater Repair	11	5	10	23	20	14	11	14	20	18	7	13
Lighting Measures									53	63	66	80
Capsylite Bulbs	15	16	18	15	14	13	11	7	8	8	1	0
Compact Fluorescent Bulbs	13	25	24	28	24	28	31	39	47	55	66	80
Water Bed Mattress Pads	Na	Na	2	5	4	3	1	2	2	2	1	1
Refrigeration Measures										14	36	44
Refrigerator Removal	Na	Na	Na	Na	Na	Na	Na	Na	Na	1	1	2
Refrigerator Exchange	Na	Na	Na	Na	Na	Na	Na	Na	Na	9	31	37
Freezer Removal	Na	Na	Na	Na	Na	Na	Na	Na	Na	0	1	1
Freezer Exchange	Na	Na	Na	Na	Na	Na	Na	Na	Na	3	10	14
Health and Safety (other than heating & water heating measures listed above)												
Asbestos Abatement	Na	Na	2	0	0	1	1	0	0	0	0	1
CO Detector	Na	Na	Na	1	4	15	22	24	29	33	30	34
Smoke Detector	Na	Na	0	1	2	3	4	5	7	0	6	9
Exhaust Ventilation	Na	Na	1	2	26	36	36	35	38	57	47	48
Fuses	Na	Na	Na	Na	Na	0	1	0	0	0	0	0
Support and Evaluator/Inspector Labor												
Evaluator Labor	Na	Na	52	60	69	38	44	82	91	94	30	Na
Inspector Labor	Na	Na	39	57	64	33	50	74	84	94	29	Na
Evaluator/Inspector Labor	Na	Na	Na	Na	Na	Na	Na	Na	Na	1	0	Na
Support	Na	Na	95	97	97	98	98	98	98	100	99	94
Other												
Repairs	82	83	76	80	80	75	73	68	70	80	80	85
Consumables	43	41	31	32	36	31	36	28	27	20	26	26
Unknown	1	12	11	0	0	0	0	5	3	1	1	1

Note: Refrigeration measures were phased in beginning the second half of 2001.

The installation rates has changed very little for most major heating/cooling measures. Installation rates of insulation has leveled out at levels of around 65% for wall/kneewall insulation and around 83% for ceiling/attic insulation. Heating system replacements have been installed in 44% of dwellings for the third straight.

Of note is the transition from standard to high-efficiency heating system replacements: CY 2003 showed 5% more installations of high efficiency heating systems and 5% fewer standard efficiency replacements. The installation frequency for high-efficiency heating replacement units (25%) now exceeds the rate for standard efficiency units (19%) for the first time in the history of the WAP program.

Refrigeration measures were installed in 44% of homes in 2003, compared with 36% in 2002. Refrigerator and freezer exchanges accounted for most of the increase, rather than removals. Refrigerator exchanges were installed in 37% of dwelling in 2003, compared with 31% for 2002. Installation rates for freezer exchanges also increased, from 10% in 2002 to 14% in 2003.

Water heater replacements increased to 18% of dwelling in 2003, compared to 15% in 2002. One-third of replacement units were high-efficiency water heaters. No water heater turndowns were performed during 2003, but the installation rates of other water heater measures remained roughly unchanged from 2002.

Compact fluorescent bulbs now comprise 100% of replacement bulbs. The installation rate of lighting measures jumped from 66% in 2002 to 80% in 2003.

Savings of Water Heater, Lighting, and Refrigeration Measures
Table 2.2 shows the installation rates for energy efficiency measures not specifically addressed by the NEAT audit as used in Iowa. These measures include water heater (except water heater replacements which are primarily health and safety measures), lighting, waterbed mattress pads, and refrigeration measures.

Statewide, client bill savings averaged $61 for these measures: this is down from $64 in CY 2002, but the primary reason remains in the correction for overestimates of refrigeration measure savings in 2002. These measures accounted for 24% of first-year client bill savings in CY 2003.

The highest average bill savings were attained by CAA Siouxland (formerly Woodbury) and Mid-Sioux, averaging just over $100 per household. The average savings for these measures in households served by North Iowa remain one of the lowest in the state at $40, but this agency showed marked improvement over the previous year where savings averaged only $23 per dwelling. Polk County showed an even greater improvement, more than tripling the average savings for these measures from $22 in 2002 to $68 in 2003.

Table 2.2 Installation rates of non-space-conditioning measures

	Water Heater Measures					Lighting			Refrigeration				
Agency	Tank Wrap	Pipe Wrap	Eff Shower-head	Eff Faucet Aerator	Temp Reduc	Cap-sylite	Compact Fluor	Waterbed Mattress Pad	Ex-change Refrig	Ex-change Freezer	Remove Refrig	Remove Freezer	Average First Year Bill Savings
Comm Opp	0%	98%	9%	0%	0%	0%	70%	0%	34%	11%	11%	2%	$56.02
HACAP	4%	36%	25%	42%	0%	0%	99%	1%	46%	13%	1%	1%	$88.56
TRAIN	39%	61%	48%	81%	0%	0%	100%	0%	26%	5%	0%	0%	$50.75
Matura	0%	0%	0%	0%	0%	0%	85%	0%	55%	23%	5%	3%	$78.29
MICA	0%	78%	44%	66%	0%	0%	95%	12%	41%	13%	0%	0%	$76.94
Mid-Sioux	26%	23%	0%	0%	0%	0%	95%	0%	28%	23%	11%	8%	$103.40
City of Des Moines	1%	41%	2%	3%	0%	0%	12%	0%	58%	15%	6%	1%	$59.32
North Iowa	0%	2%	0%	2%	0%	0%	82%	0%	29%	23%	0%	2%	$39.59
NE Iowa	9%	85%	2%	7%	0%	0%	92%	0%	35%	24%	4%	2%	$42.25
New View	6%	3%	1%	1%	0%	0%	97%	0%	43%	10%	0%	4%	$42.00
Threshold	0%	86%	0%	0%	0%	0%	84%	0%	42%	12%	0%	0%	$51.81
SCICAP	0%	17%	0%	0%	0%	0%	54%	0%	48%	15%	2%	0%	$54.51
CASEI	0%	0%	0%	0%	0%	0%	88%	0%	33%	16%	0%	0%	$44.15
SIEDA	7%	79%	41%	72%	0%	0%	87%	1%	38%	14%	0%	0%	$64.68
Upper Des Moines	0%	44%	0%	42%	1%	0%	92%	0%	37%	0%	0%	0%	$52.91
West Central	5%	69%	36%	79%	1%	0%	52%	0%	24%	16%	0%	0%	$46.25
CAA Siouxland	39%	82%	35%	0%	0%	0%	91%	0%	36%	27%	2%	2%	$105.26
Polk County	0%	95%	31%	76%	0%	0%	64%	0%	51%	24%	0%	0%	$68.26
State	9%	51%	18%	34%	0%	0%	81%	1%	38%	14%	2%	1%	$60.70

(1) First-year household bill savings are averages of total water heater, lighting, and waterbed mattress pad savings for

Table 2.3 shows that average installed costs for each measure (average costs are computed for households that received the specific measures, not across all households treated by the program.)

The average installed costs of major measures tended to fluctuate within a few percent of the costs seen in the CY 2002 program. The notable exception is for standard efficiency heating system replacements, which increased by about 10%. Also of note, the average cost for high-efficiency water heaters dropped from $816 in CY 2002 to $521 CY 2003.

Table 2.3. Average measure costs

Measure	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Insulation and Infiltration Reduction Measures												
Wall/Kneewall Insulation	449	537	668	805	807	819	826	846	831	871	875	919
Ceiling/Attic Insulation	338	370	438	516	522	543	558	573	592	631	684	664
Infiltration Reduction	264	264	285	317	337	310	248	264	281	294	340	342
Floor/Crawlspace Insulation	127	150	274	332	365	315	350	408	407	421	423	391
Bandjoist Insulation	45	55	63	66	68	71	75	79	77	82	81	79
Damming Material	Na	Na	Na	Na	Na	29	35	34	28	28	0	0
Unspecified Insulation	211	165	151	10	142	121	129	143	140	144	146	142
Heating System Measures												
Htg. Sys. Replacement	1,549	1,894	1,973	1,840	1,720	1,665	1,739	1,809	1,815	2,470	1,893	1,989
High Eff Htg Sys Repl	Na	Na	Na	1,706	2,213	1,929	1,830	2,059	1,959	2,063	2,129	2,103
Std/Unspec Eff Htg Sys Repl	Na	Na	Na	2,418	1,641	1,604	1,712	1,751	1,781	1,727	1,696	1,872
Htg. Sys. Tune and Clean	65	78	88	86	76	73	77	80	75	77	82	80
Heating System Safety Check	Na	Na	101	74	46	50	53	119	144	266	69	75
Htg. Sys. Other	130	161	172	182	210	229	248	326	251	266	281	269
Duct Insulation	Na	Na	90	107	103	105	125	74	100	76	0	0
Duct Sealing	Na	Na	219	165	157	149	126	156	142	153	96	83
Water Heater Measures												
Water Heater Turndown	0	0	0	0	0	0	0	0	0	0	0	0
Water Heater Wrap	16	19	22	20	18	20	19	19	18	18	17	16
Pipe Wrap	6	5	7	8	6	6	6	7	6	7	7	7
Shower Head	6	7	8	8	8	9	8	8	7	29	8	7
Faucet Aerator	4	4	8	7	5	6	5	5	5	5	5	5
Water Heater Replacement												
Std-Eff Wtr Htr Repl.				Combined with water heater repair							422	444
Hi-Eff Wtr Htr Repl.											816	521
Water Heater Repair	355	360	162	170	148	224	252	265	240	328	85	137
Lighting Measures												
Capsylite Bulbs	23	21	22	24	23	24	25	22	22	25	16	0
Compact Fluorescent Bulbs	15	20	23	27	41	47	70	66	58	62	74	48
Water Bed Mattress Pads	Na	Na	2	5	4	3	1	2	2	2	17	19
Refrigeration Measures												
Refrigerator Removal	Na	Na	Na	Na	Na	Na	Na	Na	Na	43	31	28
Refrigerator Exchange	Na	Na	Na	Na	Na	Na	Na	Na	Na	589	588	591
Freezer Removal	Na	Na	Na	Na	Na	Na	Na	Na	Na	40	31	30
Freezer Exchange	Na	Na	Na	Na	Na	Na	Na	Na	Na	410	397	386
Health and Safety (other than heating & water heating measures listed above)												
Asbestos Abatement	Na	Na	307	1,139	729	500	529	648	0	0	849	772
CO Detector	Na	Na	Na	44	60	60	56	55	51	50	53	53
Smoke Detector	Na	Na	110	20	38	27	31	33	25	0	25	29
Exhaust Ventilation	Na	Na	42	53	66	65	74	73	79	187	89	116
Fuses	Na	Na	Na	Na	Na	21	35	35	28	0	23	33
Support and Evaluator/Inspector Labor												
Evaluator Labor	Na	Na	111	100	84	88	114	105	111	132	151	Na
Inspector Labor	Na	Na	70	89	78	72	104	91	99	120	95	Na
Evaluator/Inspector Labor	Na	Na	Na	Na	Na	Na	Na	Na	Na	440	0	Na
Support	Na	Na	501	580	606	672	709	690	699	754	1,178	1,405
Other												
Repairs	235	244	319	381	342	287	298	292	279	296	275	318
Consumables	29	31	42	25	29	23	27	13	15	14	16	20

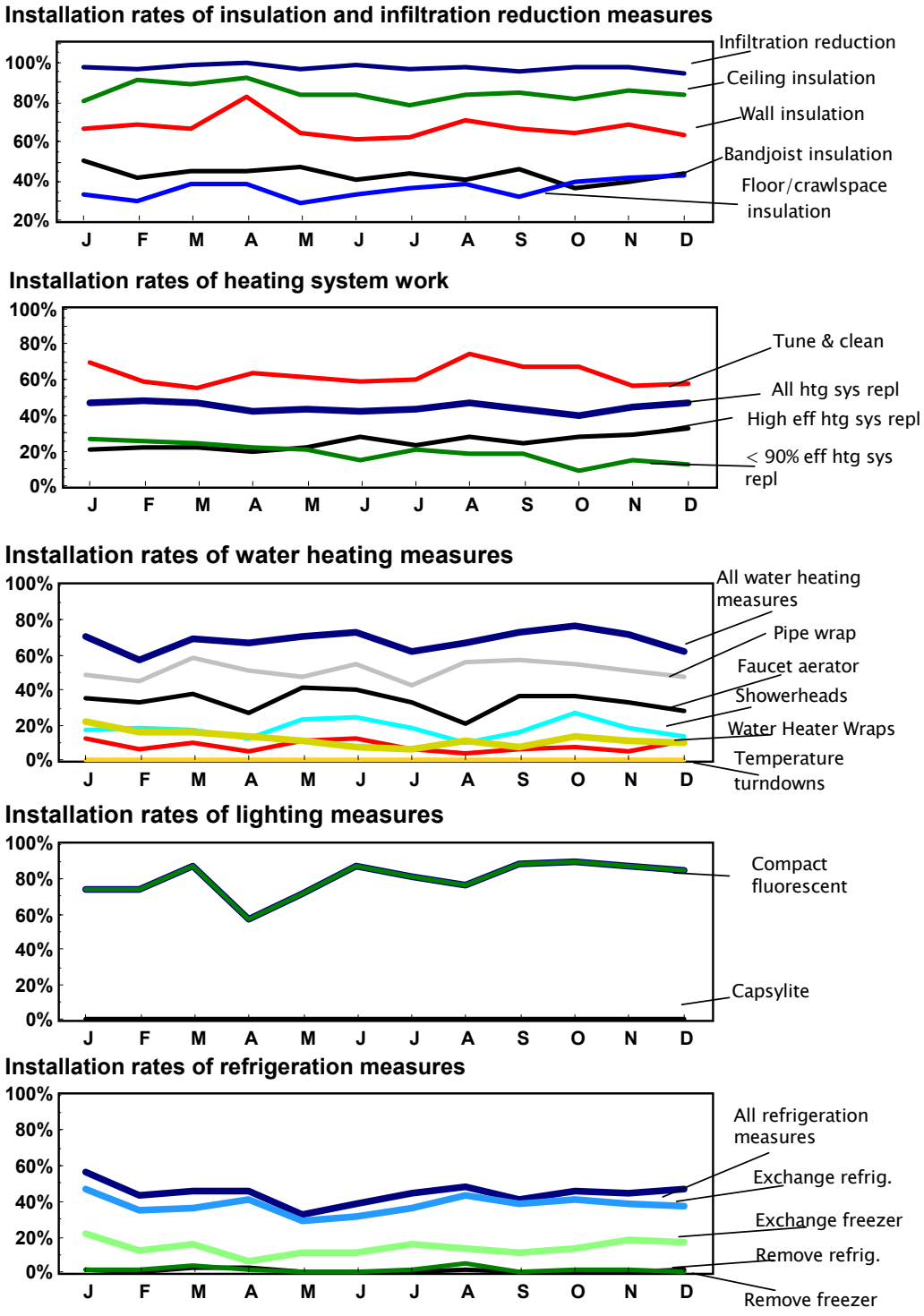


Figure 2.13 shows the month-to-month installation rates for major energy measures and for lighting and water heating measures. Most measures showed relatively flat installation rates, with the exception of the April/May period: this is the timeframe when the new agencies are in transition between WAP program years. Installation rates for high-efficiency furnace replacements overtook standard-efficiency units beginning in April.

Major Measure Costs by Agency

Figures 2.14-2.21 show the agency-specific average costs for ceiling, wall, and floor/crawlspace insulation and furnace replacements for the overall program and for utility-funded measures only. These costs represent the total expenditures for these measures averaged over the number of households that received the measure (as opposed to an average across all households that were treated by the agency).

Ceiling Insulation Expenditures

Figures 14 and 15 show the average installed costs for ceiling insulation. The statewide average cost for ceiling insulation was $664 in 2003 as compared to $684 in 2002. Community Opportunity was the only agency with an average cost exceeding $1,000, at $1,059. The average expenditures were lowest for SIEDA at $437 per dwelling and NE Iowa at $464.

The average expenditures for SCICAP dropped substantially, from $1,145 in 2002 to $919 in 2003. CAA Siouxland, formerly Woodbury County, shows a three year trend in lowered average costs, from $738 in 2001 down to $578 in 2003.

Figure 15 shows the statewide average expenditure of *utility funds* on ceiling insulation was $513 in 2003, down from $538 the previous year. The average expenditures by SCICAP dropped dramatically, from $1,064 per dwelling in 2002 to $779 in 2003. Community Opportunity continues a three year trend of increasing expenditures of utility money for ceiling insulation, from $525 in 2001 to $766 in 2003.

Wall Insulation Expenditures

Figures 16 and 17 show the average installed costs for wall insulation. The overall average expenditure for wall insulation was increased from $875 in CY 2002 to $919 in 2003. MICA showed a large increase in average expenditures, from $948 in 2002 to $1,450 in 2003. Average expenditures by Community Opportunity dropped substantially, from a high of $1,612 in 2002 to $1,274 in 2003.

Sieda continues a trend of increased average costs, from $366 in 2001 to $563 in 2003. SCICAP had to lowest average expenditure in 2003 at $376 per dwelling.

Statewide, the average expenditures for *utility-funded* wall insulation was up slightly, from $740 in 2002 to $745 in 2003. MICA nearly doubled the average expenditures from $684 in 2002 to $1,245 in 2003. No other agency averaged expenditures over $1,000 per dwelling for utility-funded wall insulation. SCICAP, New View, and Matura each averaged $425 or less for utility-funded wall insulation expenditures in 2003.

Floor/Crawlspace Insulation Expenditures

Figures 18 and 19 show average expenditures for floor/crawlspace insulation in CY 2003. Statewide, the cost for floor/crawlspace insulation averaged $391, down from $423 in 2002. HACAP spent the most, at $646 per dwelling and North Iowa ($175) spent the least on average. At $663 per dwelling, HACAP averaged the greatest expenditures of *utility funds*, and CASEI ($119) spent the least.

Furnace Replacement Expenditures

Figures 20 and 21 show average expenditures for furnace replacements. Statewide average furnace replacement costs increased to $1,991 in 2003 from $1,894 the previous year. (Figure 2.20). On average, NE Iowa and CAA Siouxland spent the most, at $2,582 and $2,722 respectively: MICA ($1,448) and City of Des Moines ($1,486) spent the least.

All agencies reported *utility-funded* furnace replacements for households with weatherization completed during that year. Figure 2.21 shows the average utility funding for replacement heating systems. The average expenditure of utility funds was $1,792.

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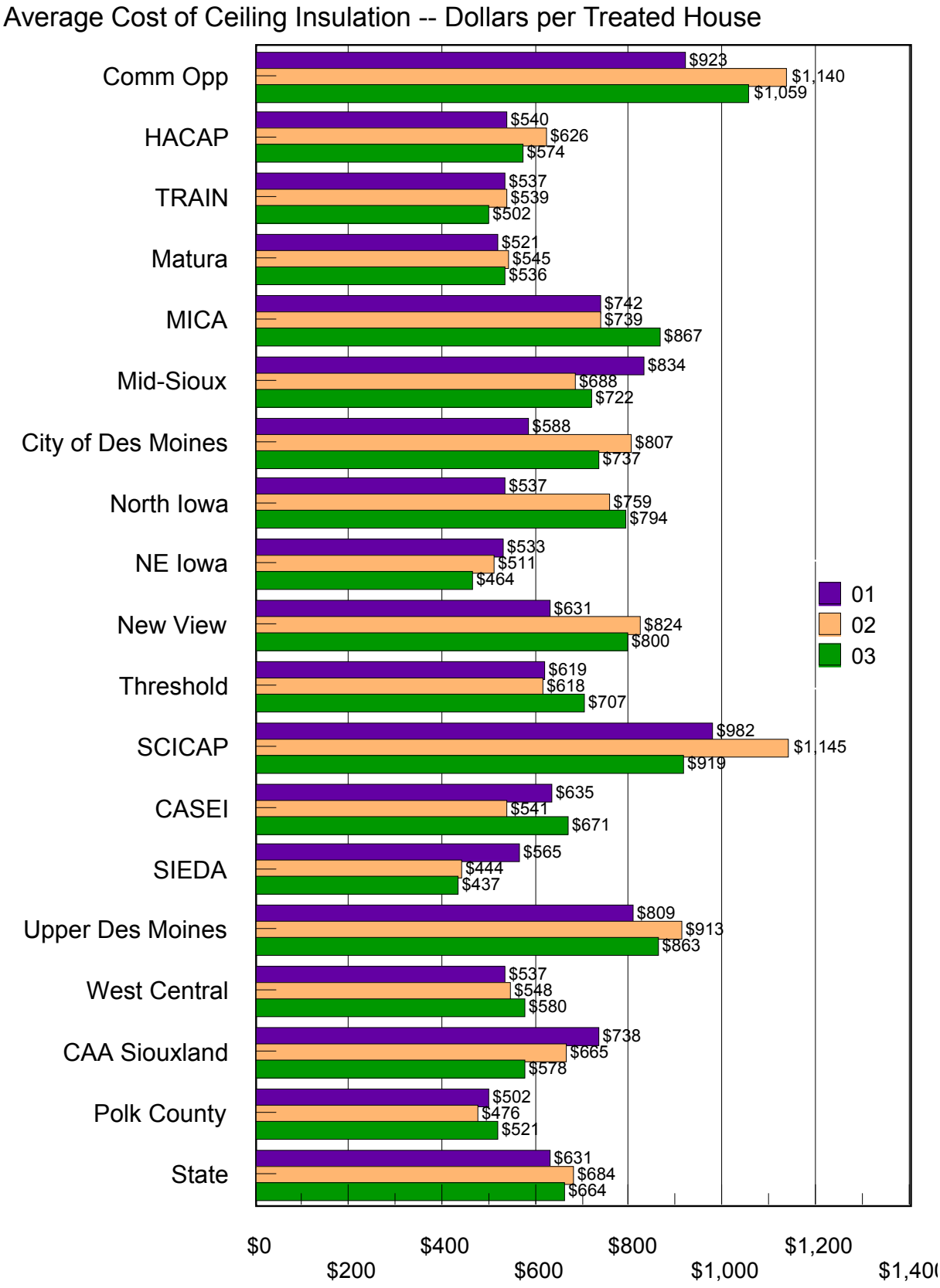

Figure 2.14. Average ceiling insulation costs by agency.

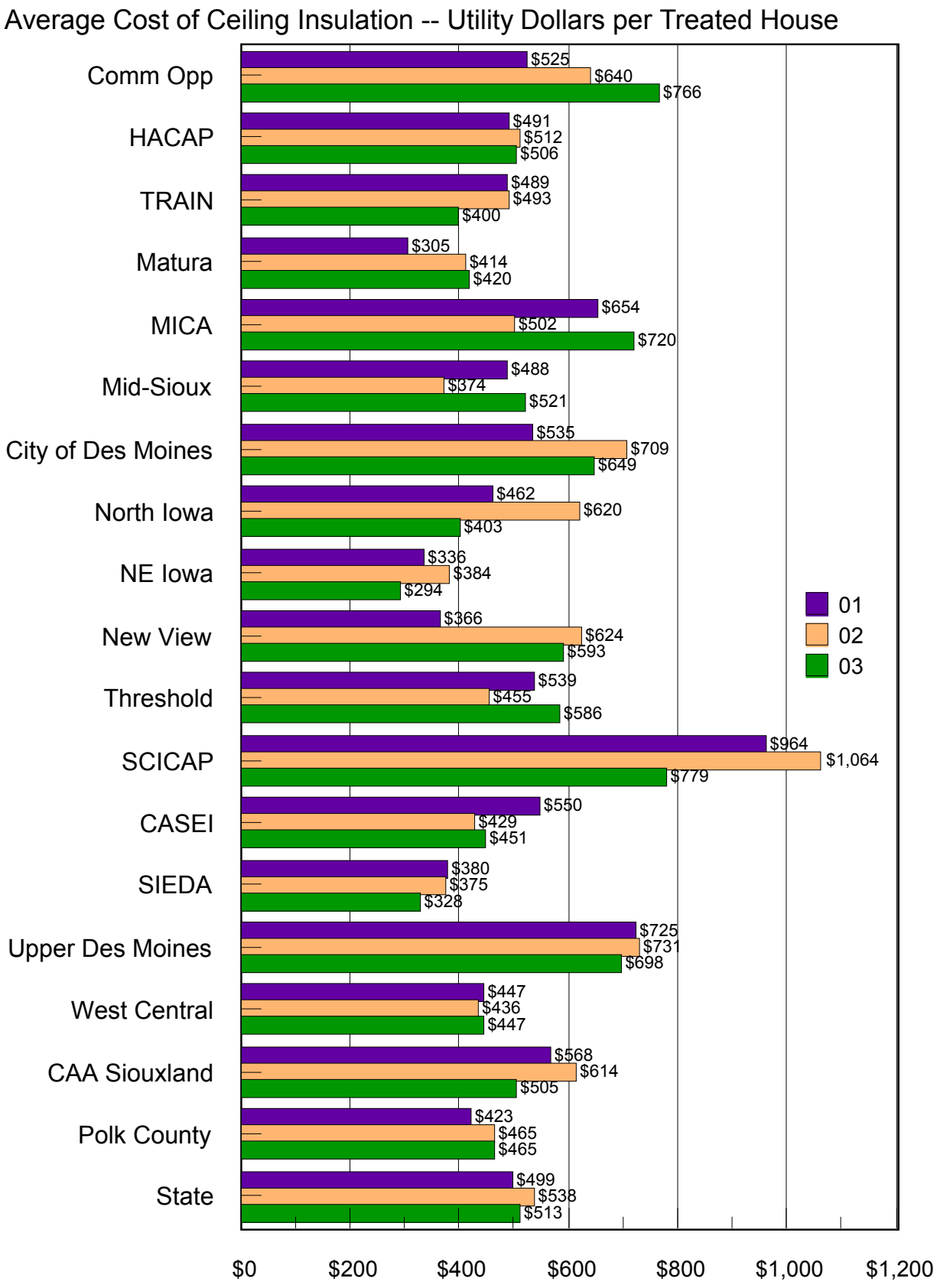

Figure 2.15. Average costs of utility-funded ceiling insulation, by agency.

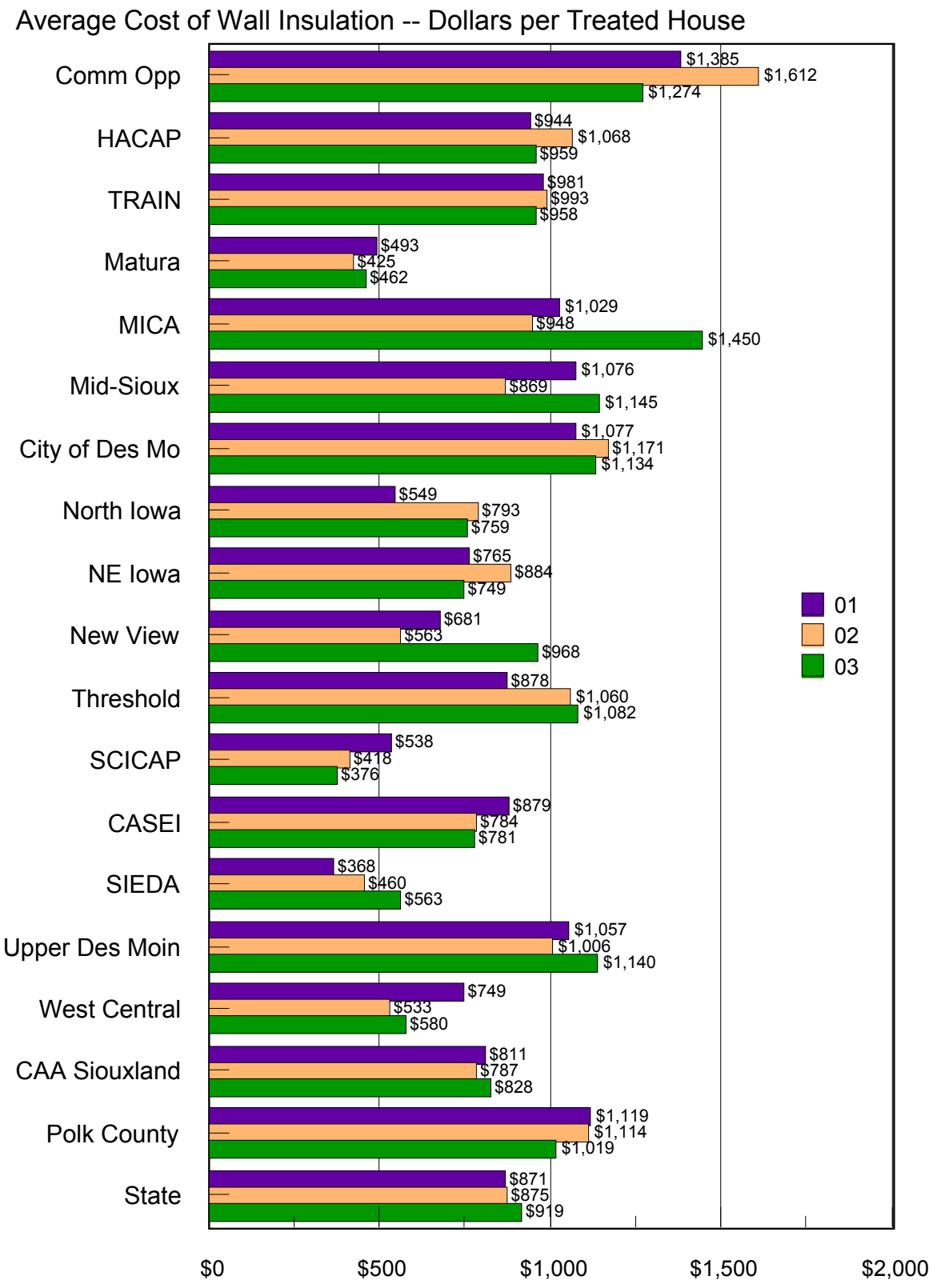

Figure 2.16. Average cost of wall insulation, by agency.

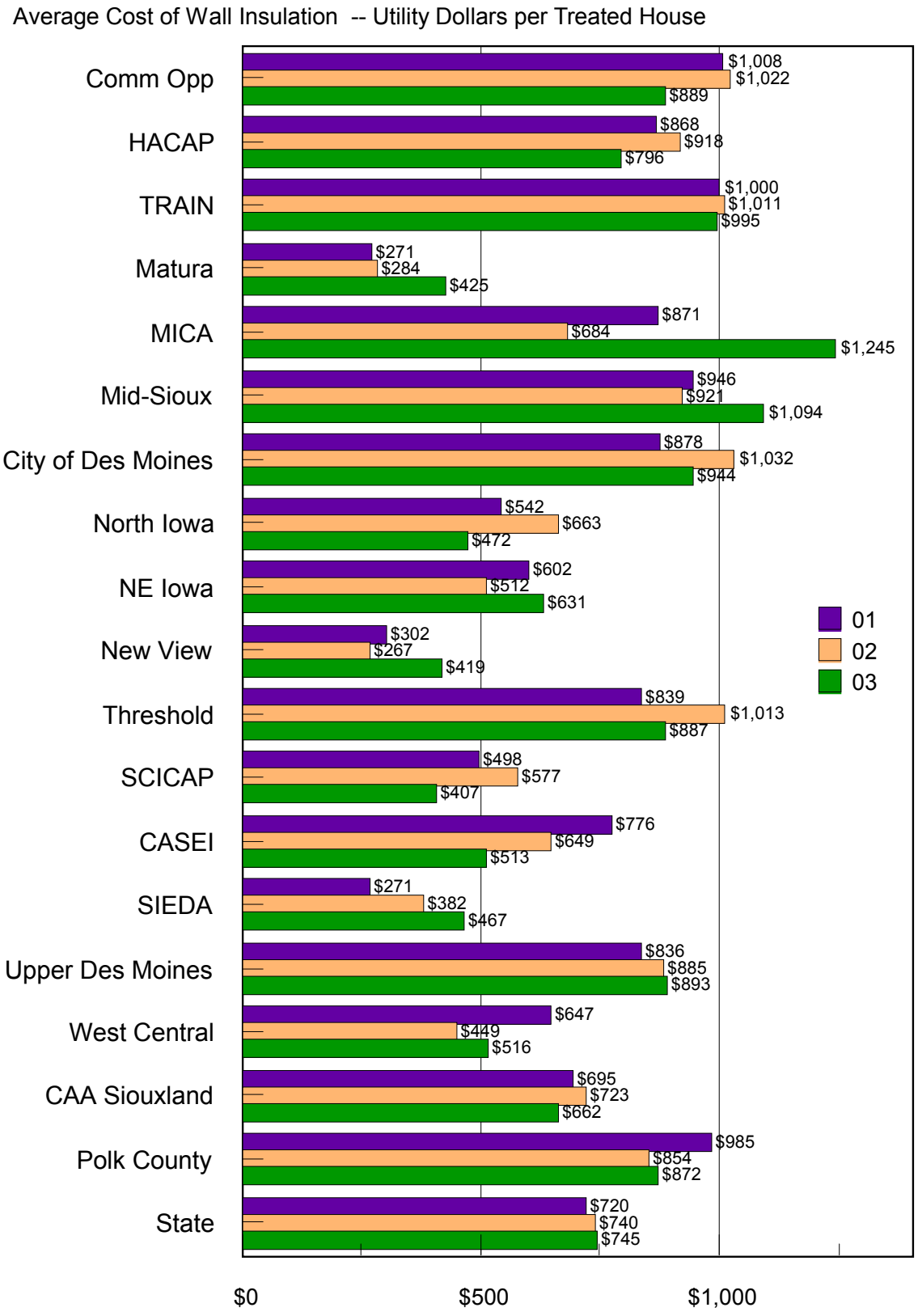

Figure 2.17. Average cost of utility-funded wall insulation, by agency.

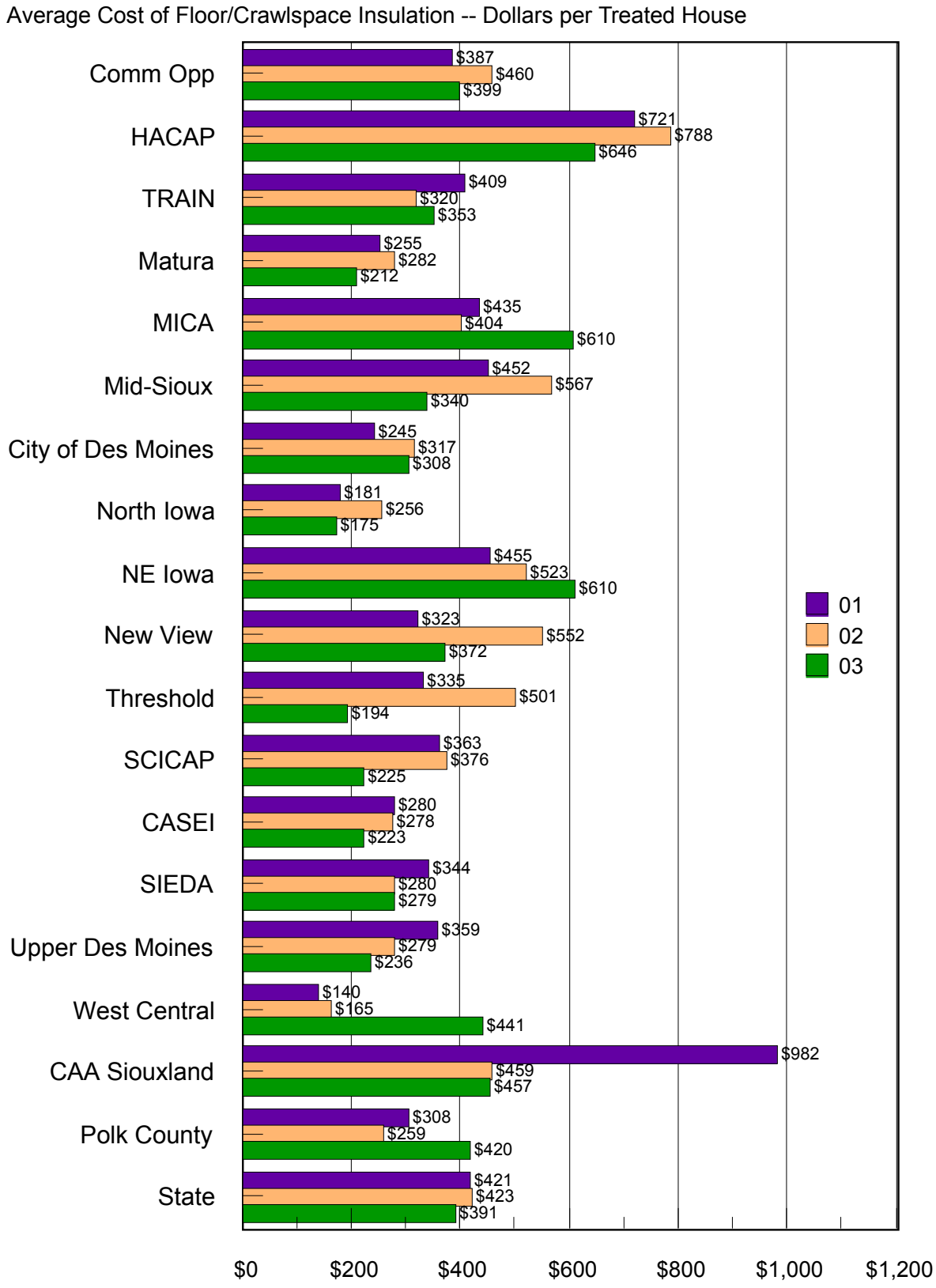

Figure 2.18. Average cost of floor/crawlspace insulation, by agency.

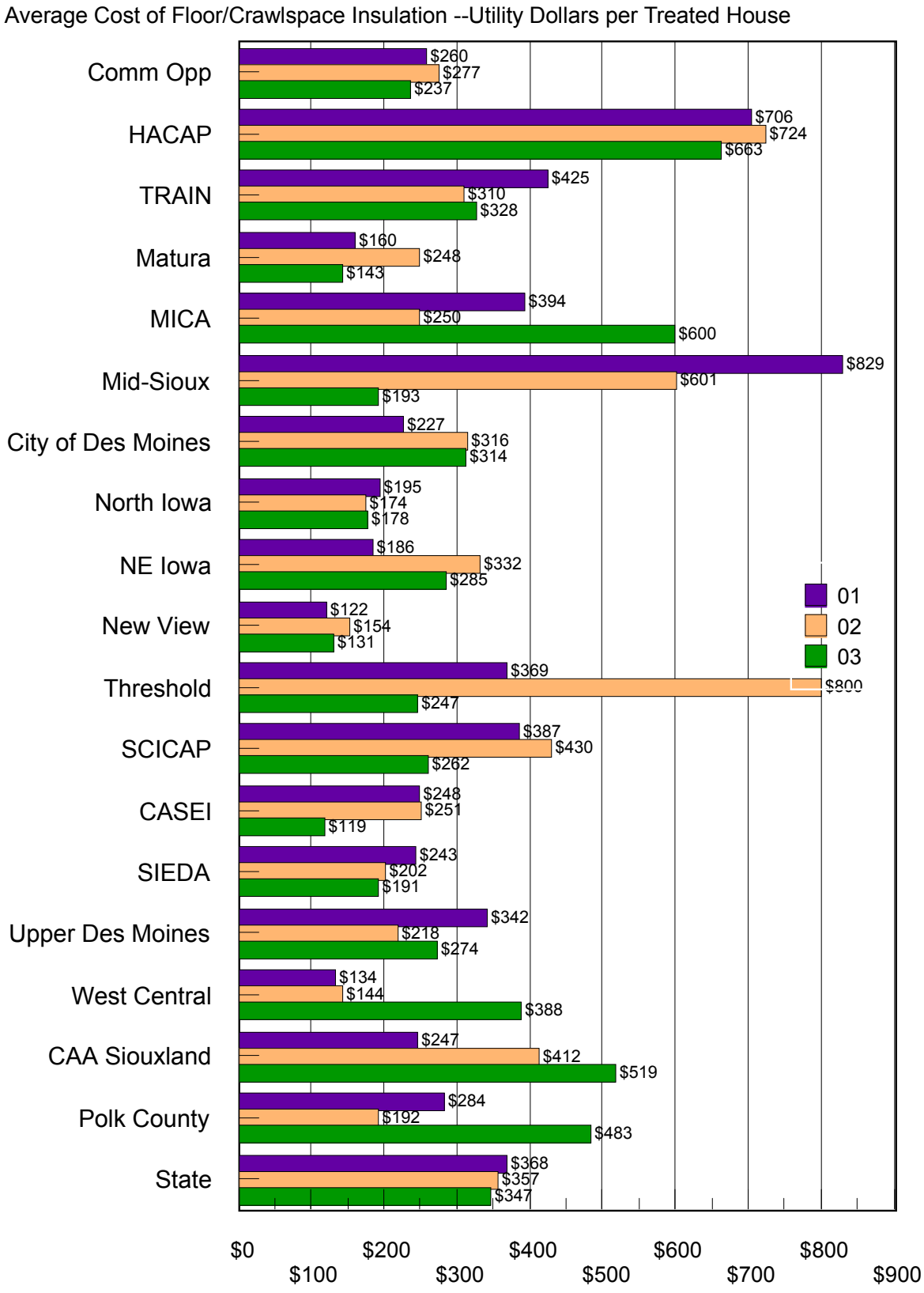

Figure 2.19. Average cost of utility-funded floor/crawlspace insulation, by agency.

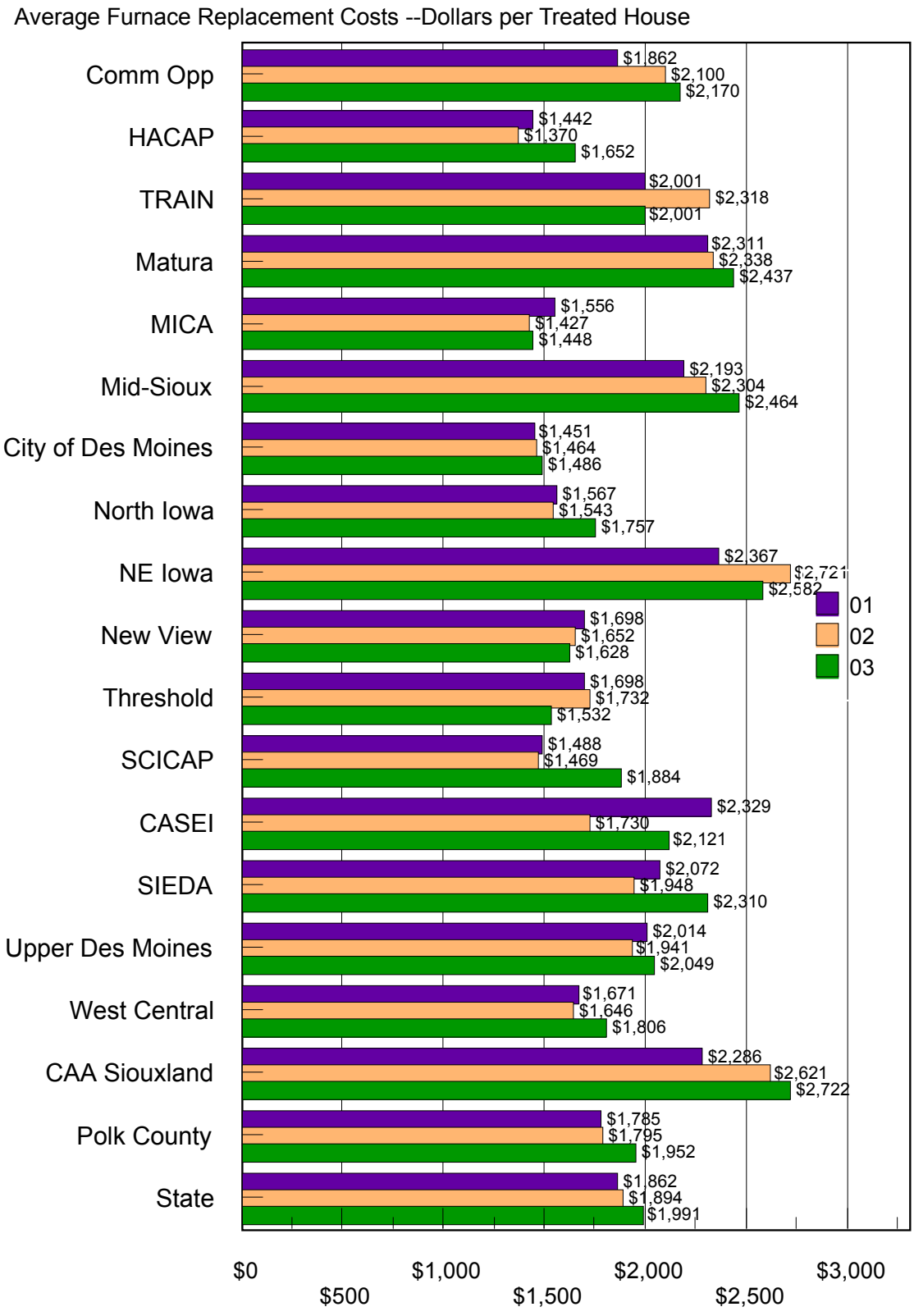

Figure 2.20. Average cost of furnace replacements, by agency.

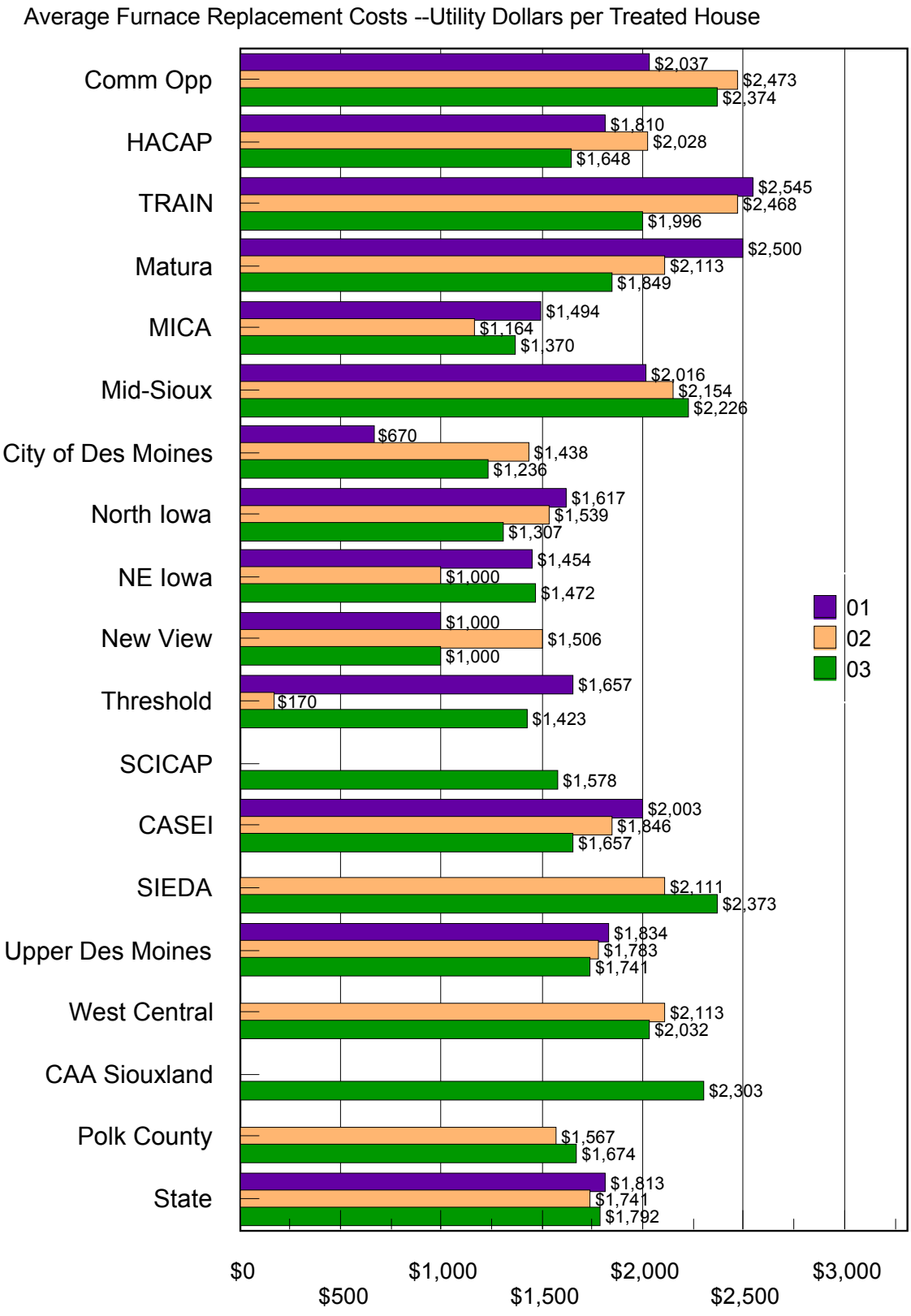

Figure 2.21. Average cost of utility-funded furnace replacements, by agency.

3. FUEL CONSUMPTION ANALYSIS AND ASSESSMENT OF AGENCY-LEVEL SAVINGS ADJUSTMENT FACTORS

The 1997 WAP report prompted a change in the methodology for estimating program savings. That study developed information pertaining to the potential error from summarizing agency-level results from the SLICE-algorithm estimates, which were designed for state-level and utility-level reporting. The revised methodology incorporates agency-level adjustment factors for estimated natural gas savings. The adjustment factors are developed annually using weather-normalization analysis of client fuel consumption histories.

In addition to a gas fuel consumption analysis, we conducted an assessment of electricity impacts for the CY 2002 program participants. The objective of the electricity analysis was to develop adjustment factors for refrigeration measure savings: previously the savings were estimated using results of the Iowa Baseload Electricity Efficiency Program pilot evaluation.

Fuel Consumption Analysis of Natural Gas Impacts

For this study, we developed adjustment factors for each agency using observed savings from a PRISM analysis of natural gas clients with dates of completion from September, 2002 to September 1, 2003. These adjustment factors were applied to estimated natural gas, propane, and fuel oil heating and insulation measures, and to natural gas and propane water heater measures.

We used a comparison group to adjust for non-program factors that could affect energy consumption. We assessed savings for a group of clients with similar characteristics to our treatment group, and netted the change in consumption from this comparison group from the WAP client group savings. In order to assess a change in consumption for the comparison group, we established a pseudo-treatment period for each comparison group household by assigning the same period as that of a randomly selected household from the treatment group.

The comparison group consisted of all LIHEAP clients who were natural gas customers of the SLICE utilities and who applied for energy assistance from October, 2002 through March, 2003. The LIHEAP comparison group had a lower average annual consumption fuel consumption than the WAP client group: to fully account for non-program influences on energy consumption, we scaled the comparison group change for each agency by the ratio of the average energy consumption of the treatment to comparison groups during the pre-treatment period (or pseudo-treatment period in the case of the comparison group).

Methodology

We assessed impacts for changes in natural gas consumption using the methodology reported in detail in previous studies. Pre- and post-weatherization gas consumption was weather-normalized using PRISM. We used the same ten weather zones that we used in previous studies (Figure 3.1). Our long-term normal datasets for this year's analysis used the 10-year period ending in Dec, 2002.

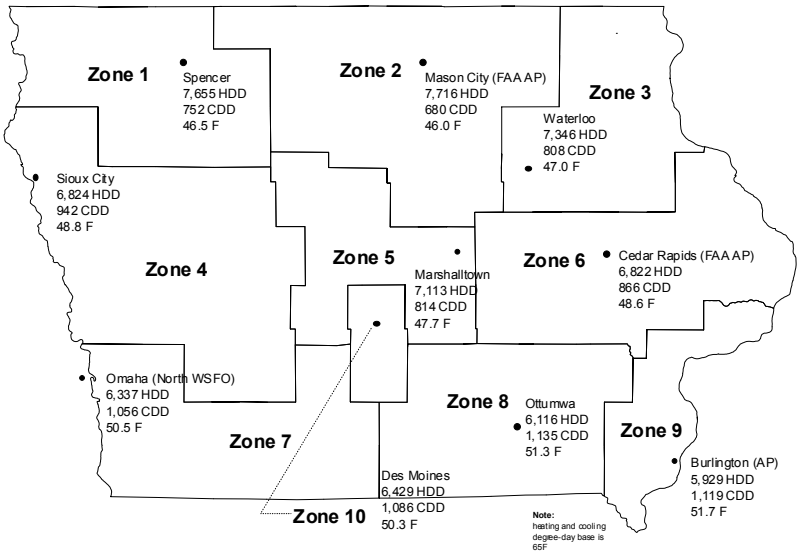

Figure 3.1 Weather zones used for the PRISM analysis

Study Sample

We used fuel histories immediately preceding and following the treatment period, requiring no less than eight actual readings in each of the pre and post periods, and no more than 390 days total consumption in either pre or post periods, and a period representing no less than 2,000 heating degree days in a typical year. In addition, we required a minimum R^2 of 0.50, a maximum coefficient of variation on NAC of 20.

Of 1,588 client households with gas heating, 933 (59%) and 33,124 comparison group households had sufficient fuel consumption histories to include in our analysis.

Results

Our results are summarized in Table 3.2.

The key result is the realization rate. The realization rate is defined as the ratio of observed savings to estimated savings. By adjusting our estimated savings for natural gas with these realization rates, we help assure that savings reported for each agency are approximately correct. In this year's study as well as last, we observed that high uncertainty in agency-specific realization rates were in part due to inconsistencies in how an agency reported quantities of insulation. This is an important parameter for estimating savings for wall and ceiling insulation and measures should be taken to assure that they are recorded consistently across all agencies. We implemented routines to correct for inconstant reporting of insulation (e.g., bags vs. pounds) and corroborated square footage with house volume to reduce the uncertainty in estimated savings for any given agency.

We found relatively high uncertainty in the results for eight agencies, including HACAP, Matura, New View, SCICAP, and Polk County. We aggregated these into a single group in our analysis.

Agency	n (with gas heating source)	n	Baseline Cons. (therms)	90% CI	Savings (therms)	90% CI	n	Baseline Cons. (therms)	90% CI	Savings (therms)	90% CI	Adjusted Savings (therms)	90 % CI	Average Estimated Savings (therms)	90% CI	Realization Rate	90% CI	Percent Savings	90% CI
Community Opportunity	41	29	1,388	132	302	72	1,354	940	17	1	12	305	70	364	37	83.9%	16.0%	22.0%	4.7%
TRAIN	178	92	1,068	79	309	38	3,090	951	14	17	18	286	36	244	27	116.9%	13.0%	26.7%	2.5%
MICA	71	39	1,148	94	340	63	1,602	964	45	28	49	327	64	290	42	112.6%	15.2%	28.5%	4.3%
Mid-Sioux	44	23	1,283	113	324	47	642	942	23	15	11	309	47	242	45	127.7%	22.3%	24.1%	3.0%
City of Des Moines	115	74	1,302	84	318	42	2,987	983	16	-25	21	313	42	309	29	101.4%	12.3%	24.0%	2.4%
North Iowa	92	82	1,192	69	205	52	1,688	975	22	11	21	221	53	217	27	101.9%	19.0%	18.5%	4.0%
NE Iowa	61	36	1,276	104	339	70	1,392	976	20	53	15	305	65	386	58	79.0%	12.7%	23.9%	4.6%
Threshold	114	65	1,347	78	342	59	2,199	1,006	17	14	14	328	56	359	36	91.4%	12.4%	24.3%	3.8%
CASEI	73	37	1,383	90	471	77	1,216	938	20	31	13	438	74	394	48	111.1%	12.5%	31.7%	4.7%
SIEDA	95	51	920	84	241	45	1,460	901	17	43	8	202	43	265	43	76.5%	12.9%	22.0%	4.1%
Upper Des Moines	124	88	1,238	71	334	64	2,728	1,029	22	-5	46	321	63	295	28	109.1%	18.8%	26.0%	4.3%
West Central	151	113	1,074	71	260	42	3,019	944	30	71	27	231	42	264	23	87.6%	13.6%	21.5%	3.3%
CAA Siouxland	60	32	1,419	101	443	71	1,660	984	16	27	14	406	66	519	72	78.2%	10.4%	28.6%	4.5%
Aggregate	369	172	1,029	51	221	34	7,906	913	9	30	8	194	33	216	19	90.1%	12.6%	18.9%	2.7%
Overall	**1,588**	**933**	**1,170**	**23**	**293**	**15**	**33,124**	**956**	**5**	**23**	**6**	**271**	**14**	**284**	**9**	**95.4%**	**4.0%**	**23.2%**	**1.0%**

We found an overall realization rate of 95.4%, indicating a slight overestimate of savings prior to correction. Overall, the program achieved 23.2% savings ± 1.0% at 90% confidence. Adjusted savings averaged 271 therms per household for our study group. The agency-specific realization rates ranged from 77% (±13%) to 128% (±22%).

In previous studies we have emphasized the importance between savings and pre-weatherization energy consumption: in general, higher pre-weatherization consumption yields greater savings. Clients are prioritized for weatherization according to pre-weatherization consumption: consequently we'd expect that agencies that weatherize households that have higher average pre-weatherization consumption compared to the general LIHEAP population will also have the greater savings.

We plotted the relationship between savings and the difference in average energy consumption between the treatment and comparison groups in Figure 3.2.

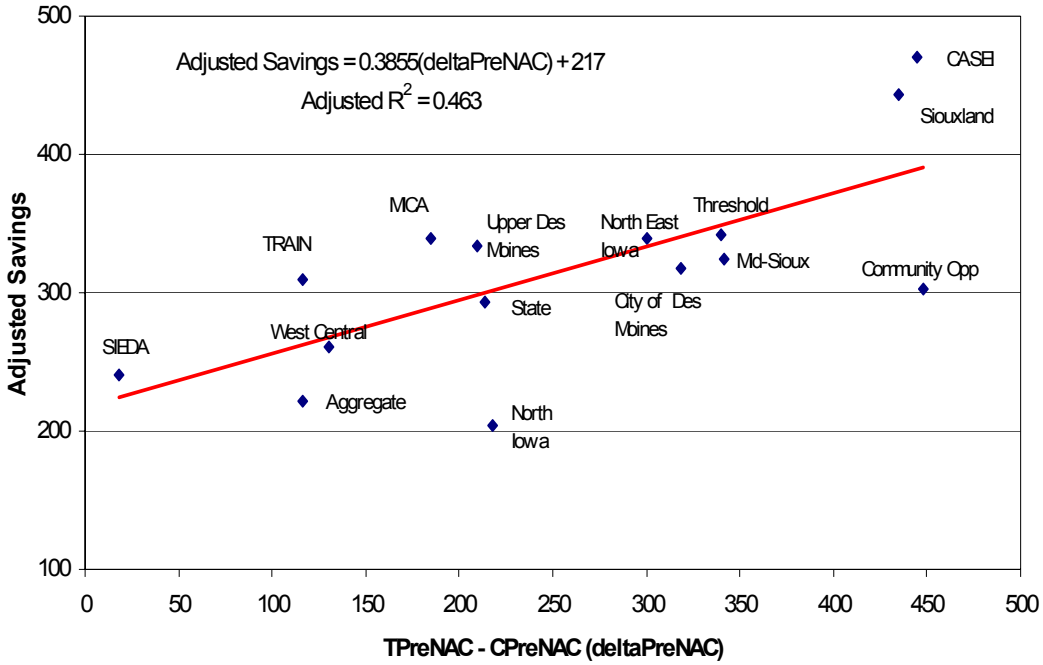

Figure 3.2 Savings in relation to the difference between treatment and comparison group energy consumption

The chart demonstrates the potential savings that can be attained by targeting clients with the highest energy consumption. These findings affirm our previous analysis that concluded targeting the highest usage households increases average household savings substantially. Although we did not analyze this closely in this report, we'd expect that average cost of savings per dollar spent to be less for agencies that target the highest consumption households due to reduced support and inspector/evaluation labor.

Fuel Consumption Analysis of Refrigeration Measure Impacts
The objective of this analysis is to develop adjustment factors for estimated refrigeration measure savings: previously the savings were estimated using results of the Iowa Baseload Electricity Efficiency Program pilot evaluation. The study group in the pilot project consisted of WAP participants with high electricity consumption. The pilot program participants are different from the typical WAP program participant, which are prioritized in large part by estimated heating fuel and electricity savings.

Another key difference between the pilot program and the WAP program is the mechanism for determining replacements. In both cases, the annual consumption is extrapolated from a metering period of approximately 2 hours duration. The pilot project used a consumption threshold of no less than 5 kWh per day for refrigerators and 4 kWh per day for freezers for appliance exchanges. The WAP program allows appliances to be replaced as long as an exchange or a combination of exchange and removal is cost-effective. This should result is more appliance installations, and a lower average savings for the WAP program installations.

Prior to this year, we estimated savings of the WAP program refrigeration measures using the average values determined by the pilot program. Given the differences noted above, we would expect the actual savings attained by the WAP program to be somewhat lower than the pilot program results. The objective of this analysis is to develop adjustment factors which, when applied to the estimated impacts from the pilot study, more reasonably represent the average savings actually attained by the WAP program installations.

Methodology
Our study group consisted of all dwelling weatherized by the WAP program in CY 2002. The WAP program provides measures with both direct and indirect impacts on electricity consumption; consequently we specified our treatment group as any household that received a refrigeration appliance exchange or removal during CY 2002, and all other households treated by the WAP over the same period as the comparison group.

We assessed impacts for changes in electricity consumption using the same general methodology as for the natural gas analysis. Pre- and post-weatherization electricity consumption was weather-normalized using Advanced PRISM, using the automatic model selection feature. We used consumption immediately prior to and after weatherization, requiring no less than 8 months of data and limiting the history to a maximum of 13 months in each period. We used the same ten weather zones that we used in previous studies (Figure 3.1). Our long-term normal datasets for this year's analysis used the 10-year period ending in Dec, 2002.

Electricity consumption is highly discretionary, and not as well linked to temperature as natural gas usage is. In order to limit spuriously high or low values in our PRISM models, we trimmed accounts in the upper and lower 2.5% of normalized annual consumption (NAC). The trim was conducted for each of four separate groups, including the pre- and post- periods from of each of the treatment and comparison groups. We were left with 780 total households in our analysis, including 294 in the treatment group and 486 in the comparison group.

Table 3.3 provides a summary of study sample characteristics. The quality of PRISM models were similar, as judged by the average R^2, around 80% for treatment and comparison groups. The average annual electricity consumption of the treatment group exceeded the comparison group usage by 470 kWh, or about 6%. SLICE estimated savings for non-refrigeration measures were about 75 kWh greater for the treatment group, or less than 1% of annual consumption.

Refrigeration measure savings averaged 1,570 per household for the treatment group. Observed impacts from the PRISM analysis showed savings averaging 883 kWh for the treatment group, and increased consumption of 121 kWh per year for the comparison group[2].

Table 3.3 Summary of Study Group Characteristics

	Treatment	Comparison	Net	
Count	294	486		
PRISM Average R2	79%	82%		
PRISM Average pre-NAC	8,711	8,241		
SLICE est. savings (non-refrigeration measures)	472	398		
Estimated refrigeration measure savings	1,570	0		
Observed savings	883	-121	1,004	
Realization rate				64%

Results

We assessed savings using two methods. First, we assessed a single realization rate for all refrigeration measures yielding the 64% realization rate that is shown in Table 3.3 We conducted a bootstrapping procedure to assess the sampling uncertainty on this result: we found the true mean realization rate is between 29% and 99%, at the 90% confidence level.

Next, we conducted a regression analysis to assess specific adjustment factors for each refrigeration measure. These include exchanges of refrigerator and freezers and removals of those appliances.

Our model regressed observed savings against parameters for values of estimated savings of non-refrigeration measures, refrigerator exchanges, freezer exchanges, refrigerator removals, and freezer removals. Using both standard and robust regression techniques, we found the coefficient on estimated savings for non-refrigeration measures was not significant at the 90% level. This indicates that the treatment and comparison group were statistically similar in regards to non-refrigeration measure impacts: this is what we would expect to see in a good comparison group where the only significant difference should be attributable to the study measure.

In addition, we found that refrigerator and freezer removals were not statistically discernable at the 90% confidence level. Consequently, we aggregated these to a single parameter. Robust regression yielded the following results:

```
Robust regression estimates                          Number of obs =     780
                                                     F(  3,   776) =   32.13
                                                     Prob > F      =  0.0000

          s_ |      Coef.   Std. Err.      t    P>|t|     [90% Conf. Interval]
-------------+------------------------------------------------------------------
Removed appl |   .5135543   .2414677     2.13   0.034     .1159006     .911208
Exch Refr    |   .6551026   .0853282     7.68   0.000     .5145824    .7956227
Exch Freezer |   .6774213   .1588123     4.27   0.000     .4158861    .9389565
       _cons |  -30.05546   69.56728    -0.43   0.666    -144.6202     84.5093
```

[2] Note that the increase in annual electricity consumption by the comparison group does not indicate that the WAP program increased electricity consumption. Electricity consumption is highly discretionary, and many of the factors driving usage (economic factors, humidity, etc.) are not captured by PRISM. We did not conduct a tertiary comparison with a non-WAP group as part of this analysis. Although it would have provided a control for these other factors, it would not have provided additional information for assessing refrigeration measure savings, which is the objective of this study.

The result of the our simple assessment of savings, which yielded a 64% realization rate on all refrigeration appliances, is well within the range of coefficients for specific refrigeration appliances from our robust regression, which range from 51.3% for appliance removals to 65.5% and 67.7% for freezer and refrigerator exchanges, respectively. The robust regression model provides statistically significant coefficients for the estimates of appliance savings, so we opted to use these values rather than apply the single realization rate to all refrigeration appliance measures.

Table 3.4 provides a comparison of the pilot and revised refrigeration measure savings.

Table 3.4. Adjusted Refrigeration Measure Savings

	Estimated savings (kWh)	
	Pilot	Revised
Refrigerator Exchange	1,327	869
Freezer Exchange	978	662
Refrigerator Removal	1,990	1,022
Freezer Removal	1,389	713

4. DETAILED SPENDING AND IMPACT PROFILES BY UTILITY

This section provides tables of spending and impacts for the utilities, the state, and the overall program. The tables are designed to provide information to meet the filing requirements for cost recovery.

The summary of impacts for state and utility funding are similar to those provided in the earlier SLICE reports.

We have added a second table for each of the utilities in this report. These tables show the combined impacts of electricity and natural gas measures regardless of funding source. These tables should prove useful for the energy and demand planning departments at the utilities to account for the aggregate impacts of the low-income program, and not just the impacts funded by a specific utility.

Energy savings for waterbed mattresses, a measure since the 1994 program, may be negative in these tables. This is because the algorithm accounts for reductions in the heat which the waterbed radiates to the house (which results in more heat required from the heating system). See Appendix A of *An Evaluation of the 1994 Iowa Low-Income Weatherization Efforts* for a detailed description of the algorithm.

In addition, cases where water heater turndowns are the only water heater energy savings measure will show up as negative. The water heater savings algorithms account for interactions between the measures. Because of this, the water heater measure savings are reduced when water heater turndowns are implemented. In the rare instance that a turndown is the only water heater measure installed, the savings show up as negative.

Combined State and Utility
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Peak-Day therms	Gas Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Peak-Day therms	Gas Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**1,819**	**1,813**	**1,588**	**215**	**25**	**0**			**5,452,970**	**348.4**		**365.1**		**1,869,400**	**4,552**	**437,603**	**59,678**	**3,559**	**0**	**2997.78**	**0.110**		**0.107**		**1,031**	**2.867**	**276**	**278**	**142**	**-**
Shell & Htg. Sys.	1,810	1,788	1,548	207	25	0	1,507	1,739	4,695,851	203.4	221,168	182.0	283,138	504,307	4,457	414,589	58,373	3,559	0	2594.39	0.135	147	0.105	163	282	2.879	268	282	142	-
Wall Insul.	1,212	1,212	1,079	104	17	0	1,002	1,210	1,114,252	79.87	87,302	73.20	113,931	201,233	1,485	138,041	13,342	1,172	0	919.35	0.080	87	0.060	94	166	1.376	128	128	69	-
Ceiling Insul.	1,544	1,544	1,328	170	22	0	1,294	1,543	1,025,374	107.95	116,964	61.51	95,971	212,935	698	65,172	10,197	665	0	664.10	0.083	90	0.040	62	138	0.525	49	60	30	-
Infil. Reduction	1,770	1,492	1,504	193	24	0	1,487	29	605,864	12.84	13,930	22.72	35,146	49,077	844	78,185	12,351	786	0	342.30	0.009	9	0.784	1,212	33	0.561	52	64	33	-
Found./Crawl. Insul	661	661	549	85	14	0	553	661	258,736	2.76	2,972	21.30	33,050	36,023	264	24,365	5,276	262	0	391.43	0.005	5	0.032	50	54	0.480	44	62	19	-
Bandjoist Insul.	796	796	679	91	14	0	-	796	62,748	0.00	0	3.23	5,040	5,040	47	4,414	659	65	0	78.83	-	-	0.004	6	6	0.070	7	7	5	-
Hi-Eff Htg Sys Repl	464	0	403	58	3	0	-	0	975,596	0.00	0	0.00	0	0	746	69,974	12,297	360	0	2102.58	-	-	-	-	-	1.850	174	212	120	-
Std-Eff Htg Sys Repl	343	0	302	37	4	0	-	0	641,985	0.00	0	0.00	0	0	365	33,740	4,158	248	0	1871.68	-	-	-	-	-	1.210	112	112	62	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	4,352	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	9	0	6	3	0	0	-	0	6,945	0.00	0	0.00	0	0	8	698	93	0	0	771.71	-	-	-	-	-	1.300	116	31	-	-

	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	1,242	200	991	51	0	0	1,832	289	1,467	76	0	0	172,525	0.0	2.0	112,791	97.4	23,336	1,339	0	0	138.91	0.000	0.010	564	0.098	24	26	-	-
Temp. Reduct.	3	0	3	0	0	0							0	0.00	0.00	0	0.1	32	0	0	0	0.00	-	-	-	0.030	11	-	-	-
WH Wrap	157	29	123	5	0	0							2,516	0.00	0.01	6,976	4.2	1,476	61	0	0	16.03	0.000	0.000	241	0.035	12	12	-	-
Pipe Insul.	887	146	712	29	0	0							5,891	0.00	0.03	14,359	10.5	3,630	162	0	0	6.64	0.000	0.000	98	0.015	5	6	-	-
LF Showerheac	335	61	262	12	0	0	355	64	275	16	0	0	2,445	0.00	0.96	42,038	20.7	6,378	327	0	0	7.30	0.000	0.016	689	0.079	24	27	-	-
Faucet Aerator	598	101	478	19	0	0	1,106	190	878	38	0	0	2,794	0.00	0.22	9,546	5.3	1,633	69	0	0	4.67	0.000	0.002	95	0.011	3	4	-	-
Std-Eff Wtr Htr Repl.	223	25	176	22	0	0	223	25	176	22	0	0	98,982	0.00	0.47	26,370	26.3	4,949	720	0	0	443.87	0.000	0.019	1,055	0.150	28	33	-	-
Hi-Eff Wtr Htr Repl.	115	8	107	0	0	0	148	10	138	0	0	0	59,897	0.00	0.33	13,501	30.3	5,238	0	0	0	520.84	0.000	0.042	1,688	0.283	49	-	-	-
Lighting	1,460	1,460					7,607	7,607					81,998	45.8	84.6	436,081	-	-	-	-	-	56.16	0.031	0.058	299	-	-	-	-	-
Capsylite (42W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Capsylite (52W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Capsylite (72W)	1	1					1	1					220	0.00	0.01	38	-	-	-	-	-	220.00	0.004	0.007	38	-	-	-	-	-
Capsylite, unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (5W)	12	12					56	56					308	0.12	0.22	1,119	-	-	-	-	-	25.68	0.010	0.018	93	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	2	2					2	2					20	0.00	0.01	32	-	-	-	-	-	10.00	0.002	0.003	16	-	-	-	-	-
CFL (11W)	43	43					143	143					684	0.44	0.80	4,148	-	-	-	-	-	15.92	0.010	0.019	96	-	-	-	-	-
CFL (15W)	453	453					2,017	2,017					17,916	9.53	17.61	90,748	-	-	-	-	-	39.55	0.021	0.039	200	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	387	387					2,705	2,705					32,884	15.62	28.85	148,725	-	-	-	-	-	84.97	0.040	0.075	384	-	-	-	-	-
CFL (23W)	599	599					1,971	1,971					19,601	13.86	25.61	131,997	-	-	-	-	-	32.72	0.023	0.043	220	-	-	-	-	-
CFL (25W)	165	165					582	582					8,355	4.59	8.47	43,671	-	-	-	-	-	50.64	0.028	0.051	265	-	-	-	-	-
CFL (30W)	56	56					130	130					2,009	1.64	3.03	15,603	-	-	-	-	-	35.87	0.029	0.054	279	-	-	-	-	-
CFL, unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Waterbed Mattress Pad	13	13	11	1	0	0	27	14	12	1	0	0	250	0.00	3.85	10,156	-2.0	-322	-33.9	0.0	0.0	19.24	0.000	0.296	781	-0.177	-29	-34		
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Unknown	13	13	11	1	0	0	27	14	12	1	0	0	250	0.00	3.85	10,156	-2.0	-322	-33.9	0.0	0.0	19.24	0.000	0.296	781	-0.177	-29	-34	-	-
Refrigerator/Freezer	801	801					1,022	1,022					502,346	99.15	92.70	806,066	-	-	-	-	-	627.15	0.124	0.116	1,006					
Refrigerator Remova	30	30					30	30					845	3.77	3.52	30,626	-	-	-	-	-	28.17	0.126	0.117	1,021	-	-	-	-	-
Refrigerator Exchange	677	677					703	703					400,079	72.38	67.67	588,432	-	-	-	-	-	590.96	0.107	0.100	869	-	-	-	-	-
Freezer Remova	19	19					19	19					570	1.67	1.56	13,538	-	-	-	-	-	30.00	0.088	0.082	713	-	-	-	-	-
Freezer Exchange	261	261					270	270					100,852	21.34	19.95	173,470	-	-	-	-	-	386.41	0.082	0.076	665	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 1824 Total Households with Spending and/or Energy Impacts:

Total		**3,783,717**	
Unspecified Insul	1,357	193,370	142.50
Duct Insulation	0	0	0.00
Duct Sealing	1,037	86,343	83.26
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	1,134	90,352	79.68
Htg. Sys./WH Other	844	227,030	268.99
Space Heater Repl	15	19,948	1329.88
Air Conditioning Work	82	4,169	50.84
Water Heater Repair	239	32,857	137.48
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	10	7,715	771.50
CO Detector	629	33,541	53.32
Smoke Detector	162	4,684	28.91
Fuses	8	264	33.02
Htg Sys Safety Check	519	39,074	75.29
Exhaust Ventilation	882	102,438	116.14
Health/Safety Repairs	0	0	0.00
Health/Safety Other	275	41,547	151.08
Consumables	477	9,346	19.59
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	1,544	490,941	317.97
Evaluator Labor	5	494	98.87
Inspector Labor	5	305	60.97
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	1	0	0.00
Support	1,714	2,408,421	1405.15
Landlord Contr Misc	33	(10,639)	-322.39
Landlord Contr Furnace	1	(107)	-107.29
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	23	1,624	70.59

Total Reported Materials, Labor, and Support Costs	**9,236,687**
Grand Total of Expenditures	**9,236,687**

State Only
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Peak-Day therms	Gas Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Peak-Day therms	Gas Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**1,806**	**1,746**	**1,555**	**215**	**25**	**0**			**3,542,444**	**203.5**		**207.6**		**1,069,907**	**2,699**	**257,806**	**59,678**	**3,559**	**0**	**1961.49**	**0.087**		**0.098**		**613**	**1.736**	**166**	**278**	**142**	**-**
Shell & Htg. Sys.	1,800	1,719	1,520	207	25	0	1,497	1,291	3,055,464	117.5	117,596	103.5	161,830	279,425	2,651	246,690	58,373	3,559	0	1697.48	0.079	79	0.080	125	163	1.744	162	282	142	-
Wall Insul.	862	862	516	104	17	0	559	820	549,924	43.15	43,011	38.26	59,950	102,962	638	59,613	13,342	1,172	0	637.96	0.077	77	0.047	73	119	1.237	116	128	69	-
Ceiling Insul.	1,130	1,130	622	170	22	0	725	1,103	523,302	59.91	59,025	26.47	41,672	100,697	292	27,397	10,197	665	0	463.10	0.083	81	0.024	38	89	0.469	44	60	30	-
Infil. Reduction	1,769	1,492	1,442	193	24	0	1,487	29	594,030	12.84	13,930	22.72	35,146	49,077	815	75,457	12,351	786	0	335.80	0.009	9	0.784	1,212	33	0.565	52	64	33	-
Found./Crawl. Insul	481	481	252	85	14	0	304	476	127,143	1.65	1,629	14.36	22,359	23,988	114	10,531	5,276	262	0	264.33	0.005	5	0.030	47	50	0.452	42	62	19	-
Bandjoist Insul.	551	551	323	91	14	0	-	551	31,821	0.00	0	1.73	2,703	2,703	21	1,995	659	65	0	57.75	-	-	0.003	5	5	0.066	6	7	5	-
Hi-Eff Htg Sys Repl	321	0	260	58	3	0	-	0	575,963	0.00	0	0.00	0	0	397	37,259	12,297	360	0	1794.28	-	-	-	-	-	1.527	143	212	120	-
Std-Eff Htg Sys Repl	343	0	302	37	4	0	-	0	641,985	0.00	0	0.00	0	0	365	33,740	4,158	248	0	1871.68	-	-	-	-	-	1.210	112	112	62	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	4,352	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	9	0	6	3	0	0	-	0	6,945	0.00	0	0.00	0	0	8	698	93	0	0	771.71	-	-	-	-	-	1.300	116	31	-	-

	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	669	103	515	51	0	0	907	132	699	76	0	0	129,326	0.0	0.9	54,936	49.7	11,314	1,339	0	0	193.31	0.000	0.009	533	0.096	22	26	-	-
Temp. Reduct.	3	0	3	0	0	0							0	0.00	0.00	0	0.1	32	0	0	0	0.00	-	-	-	0.030	11	-	-	-
WH Wrap	55	13	37	5	0	0							786	0.00	0.01	3,127	1.3	437	61	0	0	14.28	0.000	0.000	241	0.034	12	12	-	-
Pipe Insul.	379	68	282	29	0	0							2,278	0.00	0.01	6,688	4.1	1,411	162	0	0	6.01	0.000	0.000	98	0.014	5	6	-	-
LF Showerheac	127	27	88	12	0	0	137	28	93	16	0	0	908	0.00	0.33	14,524	6.7	2,063	327	0	0	7.15	0.000	0.012	538	0.076	23	27	-	-
Faucet Aerator	258	44	195	19	0	0	482	77	367	38	0	0	1,172	0.00	0.09	3,789	2.0	625	69	0	0	4.54	0.000	0.002	86	0.010	3	4	-	-
Std-Eff Wtr Htr Repl.	223	25	176	22	0	0	223	25	176	22	0	0	98,982	0.00	0.47	26,370	26.3	4,949	720	0	0	443.87	0.000	0.019	1,055	0.150	28	33	-	-
Hi-Eff Wtr Htr Repl.	65	2	63	0	0	0	65	2	63	0	0	0	25,200	0.00	0.01	439	9.2	1,798	0	0	0	387.69	0.000	0.005	219	0.146	29	-	-	-
Lighting	729	729					3,671	3,671					46,062	23.0	42.5	218,999	-	-	-	-	-	63.19	0.032	0.058	300	-	-	-	-	-
Capsylite (42W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Capsylite (52W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Capsylite (72W)	1	1					1	1					220	0.00	0.01	38	-	-	-	-	-	220.00	0.004	0.007	38	-	-	-	-	-
Capsylite, unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (5W)	1	1					4	4					40	0.01	0.02	80	-	-	-	-	-	40.00	0.008	0.016	80	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	9	9					22	22					92	0.07	0.12	638	-	-	-	-	-	10.17	0.007	0.014	71	-	-	-	-	-
CFL (15W)	224	224					945	945					10,600	4.46	8.25	42,517	-	-	-	-	-	47.32	0.020	0.037	190	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	149	149					1,119	1,119					15,214	6.46	11.94	61,524	-	-	-	-	-	102.11	0.043	0.080	413	-	-	-	-	-
CFL (23W)	299	299					1,014	1,014					11,005	7.13	13.17	67,907	-	-	-	-	-	36.81	0.024	0.044	227	-	-	-	-	-
CFL (25W)	116	116					481	481					7,521	3.79	7.00	36,092	-	-	-	-	-	64.83	0.033	0.060	311	-	-	-	-	-
CFL (30W)	33	33					85	85					1,370	1.07	1.98	10,202	-	-	-	-	-	41.52	0.032	0.060	309	-	-	-	-	-
CFL, unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Waterbed Mattress Pad	8	5	7	1	0	0	15	6	8	1	0	0	102	0.00	1.74	4,598	-1.2	-198	-33.9	0.0	0.0	12.74	0.000	0.349	920	-0.171	-28	-34		
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Unknown	8	5	7	1	0	0	15	6	8	1	0	0	102	0.00	1.74	4,598	-1.2	-198	-33.9	0.0	0.0	12.74	0.000	0.349	920	-0.171	-28	-34	-	-
Refrigerator/Freezer	545	545					666	666					311,490	62.97	58.87	511,949	-	-	-	-	-	571.54	0.116	0.108	939					
Refrigerator Remova	30	30					30	30					845	3.77	3.52	30,626	-	-	-	-	-	28.17	0.126	0.117	1,021	-	-	-	-	-
Refrigerator Exchange	397	397					397	397					226,256	40.20	37.59	326,835	-	-	-	-	-	569.91	0.101	0.095	823	-	-	-	-	-
Freezer Remova	17	17					17	17					530	1.49	1.39	12,113	-	-	-	-	-	31.18	0.088	0.082	713	-	-	-	-	-
Freezer Exchange	221	221					222	222					83,859	17.51	16.37	142,375	-	-	-	-	-	379.45	0.079	0.074	644	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 1820 Total Households with Spending and/or Energy Impacts:

Total		**3,484,605**	
Unspecified Insul	1,305	188,777	144.66
Duct Insulation	0	0	0.00
Duct Sealing	1,025	84,576	82.51
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	1,134	90,352	79.68
Htg. Sys./WH Other	844	227,030	268.99
Space Heater Repl	15	19,948	1329.88
Air Conditioning Work	82	4,169	50.84
Water Heater Repair	238	32,826	137.92
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	10	7,715	771.50
CO Detector	629	33,541	53.32
Smoke Detector	162	4,684	28.91
Fuses	8	264	33.02
Htg Sys Safety Check	519	39,074	75.29
Exhaust Ventilation	882	102,438	116.14
Health/Safety Repairs	0	0	0.00
Health/Safety Other	275	41,547	151.08
Consumables	477	9,346	19.59
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	1,544	490,889	317.93
Evaluator Labor	5	494	98.87
Inspector Labor	5	305	60.97
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	1	0	0.00
Support	1,697	2,115,451	1246.58
Landlord Contr Misc	33	(10,639)	-322.39
Landlord Contr Furnace	1	(107)	-107.29
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	22	1,924	87.44

Total Reported Materials, Labor, and Support Costs **7,027,049**

Grand Total of Expenditures **7,027,049**

Interstate Power and Light Co.
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**666**	**545**	**353**			**895,914**	**83.8**		**92.8**		**491,023**	**721**	**69,409**	**1345.22**	**0.088**		**0.121**		**901**	**2.043**	**197**
Shell & Htg. Sys.	588	459	348	415	227	731,890	46.3	55,802	41.4	63,342	119,143	705	65,496	1244.71	0.111	134	0.182	279	260	2.027	188
Wall Insul.	394	311	238	279	159	233,325	19.02	22,934	17.29	26,649	49,583	309	28,599	592.20	0.068	82	0.109	168	159	1.297	120
Ceiling Insul	521	409	303	375	198	216,216	25.81	31,130	18.34	27,929	59,059	152	14,141	415.00	0.069	83	0.093	141	144	0.502	47
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	209	167	124	151	87	51,189	1.44	1,737	4.90	7,499	9,237	55	5,079	244.92	0.010	12	0.056	86	55	0.441	41
Bandjoist Insul.	155	107	150	-	107	14,028	0.00	0	0.83	1,264	1,264	10	965	90.50	-	-	0.008	12	12	0.069	6
Hi-Eff Htg Sys Repl	114	0	114	-	0	217,132	0.00	0	0.00	0	0	179	16,712	1904.67	-	-	-	-	-	1.572	147
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms	Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms
Water Heating	252	81	171	17,912	0.0	0.8	40,575	16.6	4,036	71.08	0.000	0.010	501	0.097	24
Temp. Reduct.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	37	8	29	639	0.00	0.00	1,925	1.0	350	17.27	0.000	0.000	241	0.035	12
Pipe Insul.	179	55	124	989	0.00	0.01	5,409	1.8	637	5.53	0.000	0.000	98	0.015	5
LF Showerhead	78	24	54	583	0.00	0.41	18,011	4.4	1,360	7.48	0.000	0.017	750	0.082	25
Faucet Aerator	135	42	93	625	0.00	0.09	3,855	1.1	336	4.63	0.000	0.002	92	0.012	4
Std-Eff Wtr Htr Repl.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	37	7	30	15,075	0.00	0.28	11,375	8.3	1,353	407.43	0.000	0.040	1,625	0.277	45
Lighting	461	461		23,615	14.7	27.2	140,290	-	-	51.23	0.032	0.059	304	-	-
Capsylite (42W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	10	10		218	0.10	0.18	939	-	-	21.82	0.010	0.018	94	-	-
CFL (7W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	31	31		479	0.34	0.62	3,220	-	-	15.46	0.011	0.020	104	-	-
CFL (15W)	180	180		5,575	4.09	7.55	38,918	-	-	30.97	0.023	0.042	216	-	-
CFL (18W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	175	175		13,453	7.00	12.93	66,638	-	-	76.87	0.040	0.074	381	-	-
CFL (23W)	115	115		3,292	2.55	4.70	24,243	-	-	28.62	0.022	0.041	211	-	-
CFL (25W)	41	41		548	0.61	1.14	5,853	-	-	13.37	0.015	0.028	143	-	-
CFL (30W)	3	3		50	0.05	0.09	480	-	-	16.66	0.017	0.031	160	-	-
CFL, unknown	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	8	8	4	148	0.00	2.11	5,558	-0.8	-124	18.53	0.000	0.263	695	-0.188	-31
King	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	8	8	4	148	0.00	2.11	5,558	-0.8	-124	18.53	0.000	0.263	695	-0.188	-31
Refrigerator/Freezer	201	201		122,348	22.81	21.33	185,456	-	-	608.70	0.113	0.106	923		
Refrigerator Removal	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	180	180		105,315	18.81	17.59	152,936	-	-	585.09	0.105	0.098	850	-	-
Freezer Removal	2	2		40	0.18	0.16	1,425	-	-	20.00	0.088	0.082	713	-	-
Freezer Exchange	48	48		16,993	3.82	3.58	31,095	-	-	354.02	0.080	0.074	648	-	-

Costs for Measures Without Energy Impacts Installed in 670 Total Households with Spending and/or Energy Impacts:

Total		**192,367**	
Unspecified Insul.	29	436	15.05
Duct Insulation	0	0	0.00
Duct Sealing	12	333	27.74
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	1	32	31.86
Refrigerator Coil Clean	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	1	19	18.95
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	651	191,847	294.70
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	1	(300)	-300.00

Total Reported Materials, Labor, and Support Costs	**1,088,281**
Utility Expenditures for Administration	**71,183**
Grand Total of Expenditures	**1,159,464**

Interstate Power and Light Co.
Calendar Year 2003 Estimates
Fuel and Demand Impacts For All Customer Households Regardless of Funding Source

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**924**	**771**	**517**			**0**	**134.3**		**178.2**		**859,442**	**1,454**	**139,618**	**0.00**	**0.096**		**0.117**		**1,115**	**2.811**	**270**
Shell & Htg. Sys.	910	753	514	620	734	0	69.0	83,188	91.9	141,176	224,364	1,423	132,680	0.00	0.111	134	0.125	192	298	2.768	258
Wall Insul.	601	501	354	407	500	0	26.99	32,545	33.00	50,959	83,504	459	42,778	0.00	0.066	80	0.066	102	167	1.296	121
Ceiling Insul	790	657	442	537	656	0	35.37	42,657	30.04	46,130	88,787	229	21,524	0.00	0.066	79	0.046	70	135	0.519	49
Infil. Reduction	824	612	497	610	14	0	4.46	5,374	15.61	23,729	29,103	278	25,853	0.00	0.007	9	1.115	1,695	48	0.560	52
Found./Crawl. Insul.	340	289	193	230	289	0	2.17	2,612	11.65	17,934	20,546	84	7,815	0.00	0.009	11	0.040	62	71	0.436	40
Bandjoist Insul.	387	330	231	-	330	0	0.00	0	1.58	2,424	2,424	16	1,495	0.00	-	-	0.005	7	7	0.069	6
Hi-Eff Htg Sys Repl	158	0	158	-	0	0	0.00	0	0.00	0	0	266	24,963	0.00	-	-	-	-	-	1.685	158
Std-Eff Htg Sys Repl	73	0	73	-	0	0	0.00	0	0.00	0	0	88	8,102	0.00	-	-	-	-	-	1.205	111
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	1	0	1	-	0	0	0.00	0	0.00	0	0	2	150	0.00	-	-	-	-	-	1.744	150

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms
Water Heating	383	105	275	0.0	1.3	63,464	31.6	7,085	0.00	0.000	0.012	604	0.115	26
Temp. Reduct.	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	46	10	36	0.00	0.00	2,406	1.2	430	0.00	0.000	0.000	241	0.034	12
Pipe Insul.	261	72	188	0.00	0.01	7,081	2.8	961	0.00	0.000	0.000	98	0.015	5
LF Showerhead	113	31	81	0.00	0.49	21,751	6.5	1,997	0.00	0.000	0.016	702	0.080	25
Faucet Aerator	200	53	145	0.00	0.10	4,590	1.7	528	0.00	0.000	0.002	87	0.012	4
Std-Eff Wtr Htr Repl.	59	15	43	0.00	0.39	15,822	7.3	1,194	0.00	0.000	0.026	1,055	0.170	28
Hi-Eff Wtr Htr Repl.	47	7	40	0.00	0.29	11,814	12.1	1,976	0.00	0.000	0.042	1,688	0.303	49
Lighting	678	678		22.1	40.8	210,218	-	-	0.00	0.033	0.060	310	-	-
Capsylite (42W)	0	0		0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	1	1		0.00	0.01	38	-	-	0.00	0.004	0.007	38	-	-
Capsylite, unknown	0	0		0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	10	10		0.10	0.18	939	-	-	0.00	0.010	0.018	94	-	-
CFL (7W)	0	0		0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	32	32		0.35	0.64	3,307	-	-	0.00	0.011	0.020	103	-	-
CFL (15W)	269	269		5.99	11.07	57,049	-	-	0.00	0.022	0.041	212	-	-
CFL (18W)	0	0		0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	235	235		10.32	19.06	98,252	-	-	0.00	0.044	0.081	418	-	-
CFL (23W)	171	171		3.77	6.96	35,896	-	-	0.00	0.022	0.041	210	-	-
CFL (25W)	71	71		1.50	2.77	14,257	-	-	0.00	0.021	0.039	201	-	-
CFL (30W)	3	3		0.05	0.09	480	-	-	0.00	0.017	0.031	160	-	-
CFL, unknown	0	0		0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	13	13	5	0.00	3.85	10,156	-0.9	-147	0.00	0.000	0.296	781	-0.178	-29
King	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	13	13	5	0.00	3.85	10,156	-0.9	-147	0.00	0.000	0.296	781	-0.178	-29
Refrigerator/Freezer	355	355		43.20	40.39	351,241	-	-	0.00	0.122	0.114	989		
Refrigerator Removal	8	8		1.00	0.94	8,167	-	-	0.00	0.126	0.117	1,021	-	-
Refrigerator Exchange	306	306		32.71	30.59	265,968	-	-	0.00	0.107	0.100	869	-	-
Freezer Removal	6	6		0.53	0.49	4,275	-	-	0.00	0.088	0.082	713	-	-
Freezer Exchange	110	110		8.96	8.38	72,831	-	-	0.00	0.081	0.076	662	-	-

Costs for Measures Without Energy Impacts Installed in 924 Total Households with Spending and/or Energy Impacts:

	Total	Spending ($)	Average per Treated Household ($)
Total		**0**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs **0**

Grand Total of Expenditures **0**

Aquila Networks - PNG
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas: Pk-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas: Pk-Day therms	Annual therms
OVERALL	**207**	**0**	**207**			**183,674**	**0.0**		**0.0**		**0**	**208**	**20,689**	**887.32**	**-**		**-**		**-**	**1.005**	**100**
Shell & Htg. Sys.	201	0	201	0	0	182,708	0.0	0	0.0	0	0	204	19,433	908.99	-	-	-	-	-	1.016	97
Wall Insul.	98	0	98	0	0	43,439	0.00	0	0.00	0	0	74	7,069	443.26	-	-	-	-	-	0.756	72
Ceiling Insul	160	0	160	0	0	79,511	0.00	0	0.00	0	0	55	5,215	496.94	-	-	-	-	-	0.343	33
Infil. Reduction	87	0	87	0	0	11,834	0.00	0	0.00	0	0	29	2,728	136.03	-	-	-	-	-	0.334	31
Found./Crawl. Insul.	51	0	51	0	0	18,032	0.00	0	0.00	0	0	20	1,922	353.56	-	-	-	-	-	0.396	38
Bandjoist Insul.	45	0	45	-	0	2,925	0.00	0	0.00	0	0	3	252	65.00	-	-	-	-	-	0.059	6
Hi-Eff Htg Sys Repl	27	0	27	-	0	26,966	0.00	0	0.00	0	0	23	2,249	998.74	-	-	-	-	-	0.864	83
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms
Water Heating	102	0	102	967	0.0	0.0	0	3.9	1,256	9.48	-	-	-	0.038	12
Temp. Reduct.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	6	0	6	84	0.00	0.00	0	0.2	61	13.92	-	-	-	0.029	10
Pipe Insul.	77	0	77	373	0.00	0.00	0	1.1	386	4.84	-	-	-	0.014	5
LF Showerhead	30	0	30	214	0.00	0.00	0	2.0	617	7.15	-	-	-	0.067	21
Faucet Aerator	68	0	68	296	0.00	0.00	0	0.6	192	4.36	-	-	-	0.009	3
Std-Eff Wtr Htr Repl.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Lighting	0	0		0	0.0	0.0	0	-	-	0.00	-	-	-	-	-
Capsylite (42W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (18W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (23W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (25W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL, unknown	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-		
Refrigerator Removal	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Removal	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 207 Total Households with Spending and/or Energy Impacts:

Total		**4,434**	
Unspecified Insul.	38	4,096	107.78
Duct Insulation	0	0	0.00
Duct Sealing	16	306	19.12
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	1	33	32.67
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs	**188,109**
Utility Expenditures for Administration	**9,777**
Grand Total of Expenditures	**197,886**

Aquila Networks - PNG
Calendar Year 2003 Estimates
Fuel and Demand Impacts For All Customer Households Regardless of Funding Source

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas: Pk-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas: Pk-Day therms	Annual therms
OVERALL	**263**	**0**	**263**			**0**	**0.0**		**0.0**		**0**	**623**	**60,831**	**0.00**	-		-		-	**2.368**	**231**
Shell & Htg. Sys.	262	0	262	0	0	0	0.0	0	0.0	0	0	613	58,398	0.00	-	-	-	-	-	2.340	223
Wall Insul.	167	0	167	0	0	0	0.00	0	0.00	0	0	181	17,273	0.00	-	-	-	-	-	1.086	103
Ceiling Insul	228	0	228	0	0	0	0.00	0	0.00	0	0	99	9,425	0.00	-	-	-	-	-	0.434	41
Infil. Reduction	252	0	252	0	0	0	0.00	0	0.00	0	0	118	11,240	0.00	-	-	-	-	-	0.470	45
Found./Crawl. Insul.	83	0	83	0	0	0	0.00	0	0.00	0	0	36	3,457	0.00	-	-	-	-	-	0.438	42
Bandjoist Insul.	91	0	91	-	0	0	0.00	0	0.00	0	0	6	527	0.00	-	-	-	-	-	0.061	6
Hi-Eff Htg Sys Repl	46	0	46	-	0	0	0.00	0	0.00	0	0	84	8,083	0.00	-	-	-	-	-	1.827	176
Std-Eff Htg Sys Repl	86	0	86	-	0	0	0.00	0	0.00	0	0	88	8,372	0.00	-	-	-	-	-	1.025	97
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	1	0	1	-	0	0	0.00	0	0.00	0	0	0	21	0.00	-	-	-	-	-	0.227	21

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms
Water Heating	160	0	158	234	0	233	0	0.0	0.0	0	10.2	2,526	0.00	-	-	-	0.064	16
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	12	0	11				0	0.00	0.00	0	0.3	108	0.00	-	-	-	0.028	10
Pipe Insul.	122	0	121				0	0.00	0.00	0	1.8	608	0.00	-	-	-	0.014	5
LF Showerhead	39	0	39	41	0	41	0	0.00	0.00	0	2.5	764	0.00	-	-	-	0.064	20
Faucet Aerator	96	0	95	166	0	165	0	0.00	0.00	0	0.9	268	0.00	-	-	-	0.009	3
Std-Eff Wtr Htr Repl.	23	0	23	23	0	23	0	0.00	0.00	0	3.7	603	0.00	-	-	-	0.161	26
Hi-Eff Wtr Htr Repl.	4	0	4	4	0	4	0	0.00	0.00	0	1.1	176	0.00	-	-	-	0.270	44
Lighting	0	0		0	0		0	0.0	0.0	0	-	-	0.00	-	-	-	-	-
Capsylite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (23W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	3	0	3	3	0	3	0	0.00	0.00	0	-0.6	-93	0.00	-	-	-	-0.188	-31
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	3	0	3	3	0	3	0	0.00	0.00	0	-0.6	-93	0.00	-	-	-	-0.188	-31
Refrigerator/Freezer	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 263 Total Households with Spending and/or Energy Impacts:

	Total																				
						0															
Unspecified Insul.	0					0								0.00							
Duct Insulation	0					0								0.00							
Duct Sealing	0					0								0.00							
Damming Materia	0					0								0.00							
Htg. Sys. Tune & Clean	0					0								0.00							
Htg. Sys./WH Other	0					0								0.00							
Space Heater Repl	0					0								0.00							
Air Conditioning Work	0					0								0.00							
Water Heater Repair	0					0								0.00							
Refrigerator Coil Clean	0					0								0.00							
Unspecified Utility Meas	0					0								0.00							
Asbestos Abatement	0					0								0.00							
CO Detector	0					0								0.00							
Smoke Detector	0					0								0.00							
Fuses	0					0								0.00							
Htg Sys Safety Check	0					0								0.00							
Exhaust Ventilation	0					0								0.00							
Health/Safety Repairs	0					0								0.00							
Health/Safety Other	0					0								0.00							
Consumables	0					0								0.00							
Preservation	0					0								0.00							
Roof Repairs	0					0								0.00							
General Repairs	0					0								0.00							
Evaluator Labor	0					0								0.00							
Inspector Labor	0					0								0.00							
Eval/Insp Labor	0					0								0.00							
Meter Refrig (no action	0					0								0.00							
Meter Freezer (no action	0					0								0.00							
Support	0					0								0.00							
Landlord Contr Misc	0					0								0.00							
Landlord Contr Furnace	0					0								0.00							
Landlord Contr DHW	0					0								0.00							
Client Contr Misc	0					0								0.00							
Client Contr Refr	0					0								0.00							
Warehouse	0					0								0.00							
Unspecifed	0					0								0.00							

Total Reported Materials, Labor, and Support Costs **0**

Grand Total of Expenditures **0**

MidAmerican Energy
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms
OVERALL	**589**	**466**	**474**			**830,937**	**61.0**		**64.8**		**308,470**	**924**	**89,700**	**1410.76**	**0.092**		**0.101**		**662**	**1.949**	**189**
Shell & Htg. Sys.	543	427	448	364	338	725,789	39.6	47,771	37.1	57,967	105,738	896	82,970	1336.63	0.109	131	0.110	172	248	2.001	185
Wall Insul.	375	311	316	252	254	287,563	17.71	21,357	17.65	27,332	48,688	463	42,760	766.84	0.070	85	0.070	108	157	1.466	135
Ceiling Insul	460	371	368	292	285	206,345	22.23	26,809	16.69	26,370	53,179	199	18,420	448.58	0.076	92	0.059	93	143	0.541	50
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	166	123	141	114	100	62,372	-0.33	(394)	2.04	3,193	2,798	75	6,834	375.74	-0.003	(3)	0.020	32	23	0.531	48
Bandjoist Insul.	181	142	178	-	142	13,974	0.00	0	0.68	1,072	1,072	13	1,202	77.21	-	-	0.005	8	8	0.073	7
Hi-Eff Htg Sys Repl	82	0	82	-	0	155,534	0.00	0	0.00	0	0	146	13,754	1896.76	-	-	-	-	-	1.781	168
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms
Water Heating	324	28	296	24,320	0.0	0.3	17,280	27.2	6,729	75.06	0.000	0.011	617	0.092	23
Temp. Reduct.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	59	8	51	1,008	0.00	0.00	1,925	1.8	628	17.09	0.000	0.000	241	0.035	12
Pipe Insul.	252	23	229	2,251	0.00	0.00	2,262	3.4	1,197	8.93	0.000	0.000	98	0.015	5
LF Showerhead	100	10	90	739	0.00	0.22	9,503	7.6	2,339	7.39	0.000	0.022	950	0.084	26
Faucet Aerator	146	18	128	701	0.00	0.04	1,902	1.6	480	4.80	0.000	0.002	106	0.012	4
Std-Eff Wtr Htr Repl.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	46	1	45	19,622	0.00	0.04	1,688	12.8	2,087	426.57	0.000	0.042	1,688	0.284	46
Lighting	274	274		12,320	8.1	14.9	76,792	-	-	44.96	0.029	0.054	280	-	-
Capsylite (42W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	1	1		50	0.01	0.02	100	-	-	50.00	0.010	0.019	100	-	-
CFL (7W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	2	2		20	0.00	0.01	32	-	-	10.00	0.002	0.003	16	-	-
CFL (11W)	3	3		114	0.03	0.06	290	-	-	37.88	0.010	0.019	97	-	-
CFL (15W)	49	49		1,740	0.98	1.81	9,313	-	-	35.51	0.020	0.037	190	-	-
CFL (18W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	63	63		4,217	2.16	3.99	20,563	-	-	66.93	0.034	0.063	326	-	-
CFL (23W)	185	185		5,304	4.18	7.73	39,847	-	-	28.67	0.023	0.042	215	-	-
CFL (25W)	8	8		287	0.18	0.33	1,726	-	-	35.82	0.023	0.042	216	-	-
CFL (30W)	20	20		589	0.52	0.95	4,921	-	-	29.43	0.026	0.048	246	-	-
CFL, unknown	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	126	126		68,507	13.37	12.50	108,661	-	-	543.71	0.106	0.099	862		
Refrigerator Removal	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	126	126		68,507	13.37	12.50	108,661	-	-	543.71	0.106	0.099	862	-	-
Freezer Removal	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 591 Total Households with Spending and/or Energy Impacts:

Total		**102,311**	
Unspecified Insul.	3	61	20.46
Duct Insulation	0	0	0.00
Duct Sealing	35	1,128	32.23
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	549	101,122	184.19
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs	**933,248**
Utility Expenditures for Administration	**35,415**
Grand Total of Expenditures	**968,663**

MidAmerican Energy
Calendar Year 2003 Estimates
Fuel and Demand Impacts For All Customer Households Regardless of Funding Source

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**876**	**703**	**703**			**0**	**130.4**		**129.4**		**659,071**	**2,222**	**212,666**	**0.00**	**0.114**		**0.107**		**938**	**3.161**	**303**
Shell & Htg. Sys.	872	698	697	615	680	0	79.9	96,396	68.1	107,052	203,448	2,169	200,508	0.00	0.130	157	0.100	157	291	3.112	288
Wall Insul.	618	513	506	442	513	0	32.52	39,225	30.49	47,609	86,834	762	70,435	0.00	0.074	89	0.059	93	169	1.506	139
Ceiling Insul	747	607	594	531	607	0	42.75	51,552	23.67	37,314	88,866	334	30,933	0.00	0.080	97	0.039	61	146	0.562	52
Infil. Reduction	845	612	680	610	12	0	4.88	5,881	5.17	8,284	14,165	396	36,485	0.00	0.008	10	0.431	690	23	0.583	54
Found./Crawl. Insul.	313	245	248	218	245	0	-0.22	(261)	7.52	11,813	11,552	125	11,446	0.00	-0.001	(1)	0.031	48	47	0.504	46
Bandjoist Insul.	390	317	332	-	317	0	0.00	0	1.28	2,032	2,032	24	2,234	0.00	-	-	0.004	6	6	0.073	7
Hi-Eff Htg Sys Repl	173	0	173	-	0	0	0.00	0	0.00	0	0	345	32,250	0.00	-	-	-	-	-	1.992	186
Std-Eff Htg Sys Repl	134	0	134	-	0	0	0.00	0	0.00	0	0	178	16,198	0.00	-	-	-	-	-	1.326	121
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	4	0	4	-	0	0	0.00	0	0.00	0	0	6	527	0.00	-	-	-	-	-	1.458	132

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms
Water Heating	538	40	498	761	74	687	0	0.0	0.5	24,233	53.8	12,198	0.00	0.000	0.000	606	0.108	24
Temp. Reduct.	2	0	2				0	0.00	0.00	0	0.1	25	0.00	-	-	-	0.037	13
WH Wrap	80	9	71				0	0.00	0.00	2,165	2.6	887	0.00	0.000	0.000	241	0.036	12
Pipe Insul.	401	32	369				0	0.00	0.01	3,147	5.5	1,903	0.00	0.000	0.000	98	0.015	5
LF Showerhead	143	14	129	151	16	135	0	0.00	0.26	11,249	10.8	3,324	0.00	0.000	0.018	803	0.084	26
Faucet Aerator	240	25	215	447	54	393	0	0.00	0.06	2,820	2.5	777	0.00	0.000	0.003	113	0.012	4
Std-Eff Wtr Htr Repl.	91	3	88	91	3	88	0	0.00	0.08	3,164	15.3	2,497	0.00	0.000	0.026	1,055	0.174	28
Hi-Eff Wtr Htr Repl.	58	1	57	72	1	71	0	0.00	0.04	1,688	17.1	2,786	0.00	0.000	0.042	1,688	0.300	49
Lighting	492	492		2,236	2,236		0	14.9	27.5	141,836	-	-	0.00	0.030	0.056	288	-	-
Capsylite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	2	2		9	9		0	0.02	0.03	180	-	-	0.00	0.009	0.017	90	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	2	2		2	2		0	0.00	0.01	32	-	-	0.00	0.002	0.003	16	-	-
CFL (11W)	5	5		12	12		0	0.04	0.07	348	-	-	0.00	0.007	0.014	70	-	-
CFL (15W)	83	83		335	335		0	1.58	2.92	15,072	-	-	0.00	0.019	0.035	182	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	85	85		510	510		0	2.94	5.44	28,041	-	-	0.00	0.035	0.064	330	-	-
CFL (23W)	305	305		1,019	1,019		0	7.17	13.24	68,242	-	-	0.00	0.023	0.043	224	-	-
CFL (25W)	63	63		266	266		0	2.10	3.87	19,959	-	-	0.00	0.033	0.061	317	-	-
CFL (30W)	37	37		83	83		0	1.05	1.93	9,962	-	-	0.00	0.028	0.052	269	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	1	0	1	2	0	2	0	0.00	0.00	0	-0.2	-41	0.00	-	-	-	-0.248	-41
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	1	0	1	2	0	2	0	0.00	0.00	0	-0.2	-41	0.00	-	-	-	-0.248	-41
Refrigerator/Freezer	279	279		358	358		0	35.62	33.30	289,554	-	-	0.00	0.128	0.119	1,038		
Refrigerator Removal	16	16		16	16		0	2.01	1.88	16,334	-	-	0.00	0.126	0.117	1,021	-	-
Refrigerator Exchange	237	237		241	241		0	25.34	23.69	205,995	-	-	0.00	0.107	0.100	869	-	-
Freezer Removal	7	7		7	7		0	0.61	0.57	4,988	-	-	0.00	0.088	0.082	713	-	-
Freezer Exchange	93	93		94	94		0	7.66	7.16	62,237	-	-	0.00	0.082	0.077	669	-	-

Costs for Measures Without Energy Impacts Installed in 876 Total Households with Spending and/or Energy Impacts:

Total		**0**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs **0**

Grand Total of Expenditures **0**

5. DETAILED SPENDING AND IMPACT PROFILES BY AGENCY

This section provides tables of spending and impacts by agency for all expenditures.

Energy impacts were estimated according to the statewide algorithms, which include agency-specific adjustments beginning this year. See notes regarding waterbed mattress and water heater measure savings at the beginning of Section 4.

Community Opportunity
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**47**	**47**	**46**	**3**	**0**	**0**			**372,416**	**24.1**		**22.4**		**103,262**	**276**	**26,346**	**1,702**	**0**	**0**	**7923.75**	**0.293**		**0.260**		**2,197**	**6.006**	**573**	**567**	**-**	**-**
Shell & Htg. Sys.	47	47	41	3	0	0	43	47	344,732	16.9	18,700	14.2	22,718	41,419	273	25,627	1,702	0	0	7334.73	0.392	435	0.303	483	881	6.667	625	567	-	-
Wall Insul.	38	38	35	3	0	0	34	38	96,793	5.55	6,152	3.06	4,803	10,955	94	8,861	788	0	0	2547.17	0.163	181	0.080	126	288	2.699	253	263	-	-
Ceiling Insul.	44	44	40	3	0	0	40	44	93,218	9.34	10,370	4.96	7,992	18,362	48	4,532	316	0	0	2118.58	0.234	259	0.113	182	417	1.207	113	105	-	-
Infil. Reduction	47	43	41	3	0	0	43	3	15,513	1.57	1,748	2.56	4,142	5,890	27	2,487	105	0	0	330.05	0.036	41	0.854	1,381	137	0.647	61	35	-	-
Found./Crawl. Insul	14	14	11	2	0	0	13	14	11,164	0.40	430	3.12	4,953	5,383	14	1,287	222	0	0	797.40	0.031	33	0.223	354	385	1.246	117	111	-	-
Bandjoist Insul.	18	18	14	2	0	0	-	18	2,184	0.00	0	0.52	828	828	2	152	24	0	0	121.32	-	-	0.029	46	46	0.116	11	12	-	-
Hi-Eff Htg Sys Repl	13	0	13	0	0	0	-	0	61,864	0.00	0	0.00	0	0	50	4,703	0	0	0	4758.77	-	-	-	-	-	3.863	362	-	-	-
Std-Eff Htg Sys Repl	16	0	15	1	0	0	-	0	63,998	0.00	0	0.00	0	0	39	3,605	246	0	0	3999.88	-	-	-	-	-	2.569	240	246	-	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other																								
Water Heating	46	6	40	0	0	0	16	0	16	0	0	0	3,218	0.0		0.0		1,180	2.9	719	0	0	0	69.97	0.000		0.000		197	0.073	18	-	-	-
Temp. Reduct.	0	0	0	0	0	0							0	0.00		0.00		0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0							0	0.00		0.00		0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-
Pipe Insul.	46	6	40	0	0	0							562	0.00		0.00		1,180	1.0	341	0	0	0	12.23	0.000		0.000		197	0.025	9	-	-	-
LF Showerheac	4	0	4	0	0	0	10	0	10	0	0	0	70	0.00		0.00		0	0.4	132	0	0	0	17.50	-		-		-	0.107	33	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	3	0	3	0	0	0	6	0	6	0	0	0	2,586	0.00		0.00		0	1.5	246	0	0	0	862.00	-		-		-	0.502	82	-	-	-
Lighting	33	33					216	216					2,240	1.5		2.8		14,594	-	-	-	-	-	67.86	0.046		0.086		442	-	-	-	-	-
Capsylite (42W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite (52W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite (72W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite, unknown	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (15W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (20W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (23W)	30	30					200	200					2,080	1.41		2.60		13,394	-	-	-	-	-	69.32	0.047		0.087		446	-	-	-	-	-
CFL (25W)	3	3					16	16					160	0.13		0.23		1,201	-	-	-	-	-	53.33	0.042		0.078		400	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL, unknown	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Refrigerator/Freezer	19	19					54	54					22,226	5.67		5.30		46,068	-	-	-	-	-	1169.79	0.298		0.279		2,425					
Refrigerator Remova	5	5					10	10					248	1.26		1.17		10,209	-	-	-	-	-	49.60	0.251		0.235		2,042	-	-	-	-	-
Refrigerator Exchange	16	16					32	32					18,018	3.42		3.20		27,814	-	-	-	-	-	1126.13	0.214		0.200		1,738	-	-	-	-	-
Freezer Remova	1	1					2	2					56	0.18		0.16		1,425	-	-	-	-	-	56.00	0.175		0.164		1,425	-	-	-	-	-
Freezer Exchange	5	5					10	10					3,904	0.81		0.76		6,621	-	-	-	-	-	780.80	0.163		0.152		1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 47 Total Households with Spending and/or Energy Impacts:

Total		**178,435**	
Unspecified Insul	38	6,570	172.90
Duct Insulation	0	0	0.00
Duct Sealing	27	736	27.24
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	43	7,456	173.40
Htg. Sys./WH Other	1	122	121.60
Space Heater Repl	3	6,424	2141.33
Air Conditioning Work	0	0	0.00
Water Heater Repair	1	122	122.00
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	10	1,136	113.60
Smoke Detector	1	26	26.00
Fuses	0	0	0.00
Htg Sys Safety Check	3	220	73.33
Exhaust Ventilation	12	1,501	125.05
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	37	19,169	518.08
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	38	134,864	3549.05
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	1	90	90.00

Total Reported Materials, Labor, and Support Costs **550,851**

Grand Total of Expenditures **550,851**

HACAP
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**202**	**202**	**191**	**16**	**5**	**0**			**1,177,899**	**63.3**		**89.0**		**502,686**	**701**	**66,950**	**6,993**	**1,307**	**0**
Shell & Htg. Sys.	200	198	180	15	5	0	151	189	922,643	14.8	16,907	19.6	30,233	47,140	680	62,422	6,815	1,307	0
Wall Insul.	120	120	109	7	4	0	87	120	230,191	5.79	6,678	10.18	15,705	22,383	217	19,985	1,898	584	0
Ceiling Insul.	152	152	135	12	4	0	112	151	174,540	4.83	5,460	5.16	7,939	13,399	109	9,994	1,034	194	0
Infil. Reduction	200	151	180	15	5	0	151	0	173,967	3.02	3,314	0.00	0	3,314	146	13,330	1,636	247	0
Found./Crawl. Insul	95	95	81	9	5	0	70	95	122,826	1.20	1,455	3.94	6,012	7,468	76	6,958	1,126	182	0
Bandjoist Insul.	83	83	74	7	2	0	-	83	13,008	0.00	0	0.37	576	576	8	697	73	15	0
Hi-Eff Htg Sys Repl	31	0	30	1	0	0	-	0	100,250	0.00	0	0.00	0	0	74	6,863	261	0	0
Std-Eff Htg Sys Repl	32	0	27	4	1	0	-	0	107,861	0.00	0	0.00	0	0	50	4,595	786	85	0
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Winter kW	Annual kWh	Gas: Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	143	19	120	4	0	0	58,847	0.0	0.5	22,853	21.8	4,691	178	0	0
Temp. Reduct.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
WH Wrap	9	1	8	0	0	0	76	0.00	0.00	481	0.4	131	0	0	0
Pipe Insul.	67	8	57	2	0	0	800	0.00	0.00	1,574	1.3	445	17	0	0
LF Showerheac	51	9	40	2	0	0	823	0.00	0.27	11,967	3.6	1,119	138	0	0
Faucet Aerator	67	12	52	3	0	0	818	0.00	0.06	2,503	0.8	234	23	0	0
Std-Eff Wtr Htr Repl.	46	3	43	0	0	0	43,430	0.00	0.16	6,329	11.2	2,013	0	0	0
Hi-Eff Wtr Htr Repl.	10	0	10	0	0	0	12,900	0.00	0.00	0	4.6	749	0	0	0
Lighting	187	187					53,549	23.3	43.0	221,905	-	-	-	-	-
Capsylite (42W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (52W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (72W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite, unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (5W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (7W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (9W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (11W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (15W)	3	3					22	0.10	0.19	990	-	-	-	-	-
CFL (18W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (20W)	187	187					4,018	23.20	42.86	220,915	-	-	-	-	-
CFL (23W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (25W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (30W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL, unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
Waterbed Mattress Pad	3	3	3	0	0	0	134	0.00	2.32	6,130	-1.0	-163	0.0	0.0	0.0
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Unknown	3	3	3	0	0	0	134	0.00	2.32	6,130	-1.0	-163	0.0	0.0	0.0
Refrigerator/Freezer	104	104					142,726	25.17	23.54	204,657	-	-	-	-	-
Refrigerator Remova	3	3					120	0.75	0.70	6,125	-	-	-	-	-
Refrigerator Exchange	92	92					119,976	19.67	18.39	159,928	-	-	-	-	-
Freezer Remova	2	2					80	0.35	0.33	2,850	-	-	-	-	-
Freezer Exchange	27	27					22,550	4.40	4.11	35,753	-	-	-	-	-

Measure	Spending on Materials & Labor ($)	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**5831.18**	**0.177**		**0.225**		**2,489**	**3.669**	**351**	**437**	**261**	-
Shell & Htg. Sys.	4613.21	0.098	112	0.104	160	238	3.777	347	454	261	-
Wall Insul.	1918.26	0.067	77	0.085	131	187	1.994	183	271	146	-
Ceiling Insul.	1148.29	0.043	49	0.034	53	88	0.806	74	86	49	-
Infil. Reduction	869.84	0.020	22	-	-	22	0.809	74	109	49	-
Found./Crawl. Insul	1292.90	0.017	21	0.041	63	79	0.943	86	125	36	-
Bandjoist Insul.	156.72	-	-	0.005	7	7	0.103	9	10	7	-
Hi-Eff Htg Sys Repl	3233.87	-	-	-	-	-	2.465	229	261	-	-
Std-Eff Htg Sys Repl	3370.65	-	-	-	-	-	1.862	170	196	85	-
Electric Htg Sys Repl	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0.00	-	-	-	-	-	-	-	-	-	-

Measure	Spending on Materials & Labor ($)	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Summer kW	Winter kW	Annual kWh	Gas: Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	411.52	0.000	0.026	1,203	0.182	39	45	-	-
Temp. Reduct.	0.00	-	-	-	-	-	-	-	-
WH Wrap	8.46	0.000	0.001	481	0.047	16	-	-	-
Pipe Insul.	11.93	0.000	0.000	197	0.022	8	9	-	-
LF Showerheac	16.15	0.000	0.030	1,330	0.091	28	69	-	-
Faucet Aerator	12.21	0.000	0.005	209	0.015	4	8	-	-
Std-Eff Wtr Htr Repl.	944.12	0.000	0.052	2,110	0.260	47	-	-	-
Hi-Eff Wtr Htr Repl.	1290.00	-	-	-	0.459	75	-	-	-
Lighting	286.36	0.125	0.230	1,187	-	-	-	-	-
Capsylite (42W)	0.00	-	-	-	-	-	-	-	-
Capsylite (52W)	0.00	-	-	-	-	-	-	-	-
Capsylite (72W)	0.00	-	-	-	-	-	-	-	-
Capsylite, unknown	0.00	-	-	-	-	-	-	-	-
CFL (5W)	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0.00	-	-	-	-	-	-	-	-
CFL (15W)	127.34	0.035	0.064	330	-	-	-	-	-
CFL (18W)	0.00	-	-	-	-	-	-	-	-
CFL (20W)	284.31	0.124	0.229	1,181	-	-	-	-	-
CFL (23W)	0.00	-	-	-	-	-	-	-	-
CFL (25W)	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0.00	-	-	-	-	-	-	-	-
CFL, unknown	0.00	-	-	-	-	-	-	-	-
Waterbed Mattress Pad	44.77	0.000	0.774	2,043	-0.331	-54	-		
King	0.00	-	-	-	-	-	-	-	-
Queen	0.00	-	-	-	-	-	-	-	-
Double	0.00	-	-	-	-	-	-	-	-
Single	0.00	-	-	-	-	-	-	-	-
Unknown	44.77	0.000	0.774	2,043	-0.331	-54	-	-	-
Refrigerator/Freezer	1372.37	0.242	0.226	1,968					
Refrigerator Remova	40.00	0.251	0.235	2,042	-	-	-	-	-
Refrigerator Exchange	1304.09	0.214	0.200	1,738	-	-	-	-	-
Freezer Remova	40.00	0.175	0.164	1,425	-	-	-	-	-
Freezer Exchange	835.19	0.163	0.152	1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 202 Total Households with Spending and/or Energy Impacts:

Total		**952,395**	
Unspecified Insul	143	70,278	491.45
Duct Insulation	0	0	0.00
Duct Sealing	114	32,077	281.38
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	151	22,596	149.64
Htg. Sys./WH Other	87	34,561	397.26
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	31	9,919	319.97
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	187	24,204	129.44
Smoke Detector	110	7,483	68.03
Fuses	4	264	66.08
Htg Sys Safety Check	1	91	90.74
Exhaust Ventilation	93	16,543	177.88
Health/Safety Repairs	0	0	0.00
Health/Safety Other	41	20,790	507.07
Consumables	1	124	124.46
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	153	108,722	710.60
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	202	604,741	2993.77
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	0	0	0.00

Total Reported Materials, Labor, and Support Costs **2,130,294**

Grand Total of Expenditures **2,130,294**

TRAIN
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**188**	**188**	**179**	**10**	**0**	**0**			**1,012,135**	**104.4**		**40.8**		**312,610**	**1,124**	**109,583**	**6,885**	**0**	**0**
Shell & Htg. Sys.	188	188	178	9	0	0	178	185	921,056	87.1	93,475	19.0	28,717	122,192	1,075	97,115	6,699	0	0
Wall Insul.	132	132	126	6	0	0	123	132	252,974	32.80	35,508	10.39	15,718	51,226	390	35,253	1,754	0	0
Ceiling Insul.	156	156	148	7	0	0	149	156	156,556	51.35	54,851	5.92	9,001	63,853	155	14,003	1,068	0	0
Infil. Reduction	187	178	172	8	0	0	178	1	138,319	2.25	2,398	0.06	89	2,487	236	21,333	1,127	0	0
Found./Crawl. Insul	65	65	60	5	0	0	63	65	45,910	0.67	718	1.88	2,839	3,558	61	5,525	745	0	0
Bandjoist Insul.	130	130	123	7	0	0	-	130	27,148	0.00	0	0.71	1,068	1,068	22	1,990	119	0	0
Hi-Eff Htg Sys Repl	22	0	19	3	0	0	-	0	92,885	0.00	0	0.00	0	0	59	5,309	1,638	0	0
Std-Eff Htg Sys Repl	53	0	52	1	0	0	-	0	207,263	0.00	0	0.00	0	0	152	13,702	248	0	0
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	175	27	145	3	0	0	35,784	0.0	0.7	41,937	49.3	12,468	186	0	0
Temp. Reduct.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
WH Wrap	74	11	62	1	0	0	2,586	0.00	0.01	5,292	4.9	1,713	30	0	0
Pipe Insul.	113	18	94	1	0	0	1,314	0.00	0.01	3,541	3.6	1,235	14	0	0
LF Showerheac	90	15	74	1	0	0	1,294	0.00	0.38	16,518	16.1	4,939	116	0	0
Faucet Aerator	152	24	125	3	0	0	1,363	0.00	0.08	3,506	3.8	1,159	25	0	0
Std-Eff Wtr Htr Repl.	8	3	5	0	0	0	6,410	0.00	0.10	6,329	2.4	394	0	0	0
Hi-Eff Wtr Htr Repl.	26	2	24	0	0	0	22,817	0.00	0.17	6,751	18.6	3,028	0	0	0
Lighting	188	188					8,666	5.4	10.0	51,384	-	-	-	-	-
Capsylite (42W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (52W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (72W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite, unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (5W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (7W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (9W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (11W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (15W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (18W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (20W)	1	1					68	0.02	0.04	220	-	-	-	-	-
CFL (23W)	187	187					8,598	5.37	9.93	51,165	-	-	-	-	-
CFL (25W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (30W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL, unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.0	0.0	0.0
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Refrigerator/Freezer	53	53					46,630	11.94	11.17	97,097	-	-	-	-	-
Refrigerator Remova	0	0					0	0.00	0.00	0	-	-	-	-	-
Refrigerator Exchange	49	49					42,024	10.48	9.80	85,179	-	-	-	-	-
Freezer Remova	0	0					0	0.00	0.00	0	-	-	-	-	-
Freezer Exchange	9	9					4,606	1.47	1.37	11,918	-	-	-	-	-

Measure	Spending on Materials & Labor ($)	Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	204.48	0.000		0.028		1,553	0.340	86	62	-	-
Temp. Reduct.	0.00	-		-		-	-	-	-	-	-
WH Wrap	34.95	0.000		0.001		481	0.080	28	30	-	-
Pipe Insul.	11.63	0.000		0.000		197	0.038	13	14	-	-
LF Showerheac	14.38	0.000		0.025		1,101	0.217	67	116	-	-
Faucet Aerator	8.97	0.000		0.003		146	0.030	9	8	-	-
Std-Eff Wtr Htr Repl.	801.21	0.000		0.035		2,110	0.483	79	-	-	-
Hi-Eff Wtr Htr Repl.	877.58	0.000		0.083		3,375	0.773	126	-	-	-
Lighting	46.10	0.029		0.053		273	-	-	-	-	-
Capsylite (42W)	0.00	-		-		-	-	-	-	-	-
Capsylite (52W)	0.00	-		-		-	-	-	-	-	-
Capsylite (72W)	0.00	-		-		-	-	-	-	-	-
Capsylite, unknown	0.00	-		-		-	-	-	-	-	-
CFL (5W)	0.00	-		-		-	-	-	-	-	-
CFL (7W)	0.00	-		-		-	-	-	-	-	-
CFL (9W)	0.00	-		-		-	-	-	-	-	-
CFL (11W)	0.00	-		-		-	-	-	-	-	-
CFL (15W)	0.00	-		-		-	-	-	-	-	-
CFL (18W)	0.00	-		-		-	-	-	-	-	-
CFL (20W)	68.00	0.023		0.043		220	-	-	-	-	-
CFL (23W)	45.98	0.029		0.053		274	-	-	-	-	-
CFL (25W)	0.00	-		-		-	-	-	-	-	-
CFL (30W)	0.00	-		-		-	-	-	-	-	-
CFL, unknown	0.00	-		-		-	-	-	-	-	-
Waterbed Mattress Pad	0.00	-		-		-	-	-	-	-	-
King	0.00	-		-		-	-	-	-	-	-
Queen	0.00	-		-		-	-	-	-	-	-
Double	0.00	-		-		-	-	-	-	-	-
Single	0.00	-		-		-	-	-	-	-	-
Unknown	0.00	-		-		-	-	-	-	-	-
Refrigerator/Freezer	879.81	0.225		0.211		1,832					
Refrigerator Remova	0.00	-		-		-	-	-	-	-	-
Refrigerator Exchange	857.63	0.214		0.200		1,738	-	-	-	-	-
Freezer Remova	0.00	-		-		-	-	-	-	-	-
Freezer Exchange	511.78	0.163		0.152		1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 188 Total Households with Spending and/or Energy Impacts:

Total		**847,959**	
Unspecified Insul	163	64,599	396.31
Duct Insulation	0	0	0.00
Duct Sealing	170	34,733	204.31
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	167	37,681	225.63
Htg. Sys./WH Other	79	39,472	499.64
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	14	3,729	266.37
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	61	4,780	78.36
Smoke Detector	4	130	32.39
Fuses	0	0	0.00
Htg Sys Safety Check	1	271	271.16
Exhaust Ventilation	138	21,318	154.48
Health/Safety Repairs	0	0	0.00
Health/Safety Other	20	6,751	337.53
Consumables	188	8,264	43.96
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	173	90,623	523.83
Evaluator Labor	1	156	156.08
Inspector Labor	1	115	115.08
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	188	537,454	2858.80
Landlord Contr Misc	5	(3,160)	-632.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	2	1,044	522.00

Total Reported Materials, Labor, and Support Costs **1,860,095**

Grand Total of Expenditures **1,860,095**

MATURA
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**40**	**40**	**30**	**10**	**1**	**0**			**279,693**	**22.1**		**15.4**		**106,297**	**158**	**14,498**	**4,567**	**195**	**0**	**6992.32**	**0.303**		**0.203**		**2,657**	**5.277**	**483**	**457**	**195**	**-**
Shell & Htg. Sys.	40	39	30	9	1	0	36	39	224,990	12.6	13,153	4.0	6,050	19,204	154	13,858	4,459	195	0	5624.76	0.351	365	0.103	155	492	5.147	462	495	195	-
Wall Insul.	26	26	21	4	1	0	24	26	24,021	3.48	3,832	2.13	3,202	7,034	44	3,911	627	78	0	923.90	0.145	160	0.082	123	271	2.075	186	157	78	-
Ceiling Insul.	35	35	25	9	1	0	32	35	37,519	6.77	6,898	1.35	2,026	8,924	24	2,121	713	48	0	1071.98	0.212	216	0.038	58	255	0.945	85	79	48	-
Infil. Reduction	39	36	29	9	1	0	36	0	24,027	1.09	1,080	0.00	0	1,080	21	1,857	1,709	62	0	616.07	0.030	30	-	-	30	0.713	64	190	62	-
Found./Crawl. Insul	14	14	11	3	0	0	13	14	5,938	1.29	1,344	0.42	638	1,982	6	513	330	0	0	424.15	0.099	103	0.030	46	142	0.521	47	110	-	-
Bandjoist Insul.	25	25	20	4	1	0	-	25	1,882	0.00	0	0.12	184	184	2	187	42	8	0	75.28	-	-	0.005	7	7	0.104	9	11	8	-
Hi-Eff Htg Sys Repl	25	0	21	4	0	0	-	0	120,271	0.00	0	0.00	0	0	56	5,028	890	0	0	4810.83	-	-	-	-	-	2.669	239	223	-	-
Std-Eff Htg Sys Repl	2	0	1	1	0	0	-	0	11,332	0.00	0	0.00	0	0	3	240	148	0	0	5665.95	-	-	-	-	-	2.681	240	148	-	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other																								
Water Heating	15	3	10	2	0	0	38	6	28	4	0	0	12,982	0.0		0.2	6,329	3.9	640	108	0	0	865.49	0.000		0.052	2,110	0.392	64	54	-	-
Temp. Reduct.	0	0	0	0	0	0			0	0.00		0.00	0	0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0			0	0.00		0.00	0	0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-	-
Pipe Insul.	0	0	0	0	0	0			0	0.00		0.00	0	0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-	-
LF Showerheac	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-
Std-Eff Wtr Htr Repl.	10	3	5	2	0	0	20	6	10	4	0	0	8,771	0.00		0.16	6,329	1.5	246	108	0	0	877.09	0.000		0.052	2,110	0.302	49	54	-	-
Hi-Eff Wtr Htr Repl.	5	0	5	0	0	0	18	0	18	0	0	0	4,212	0.00		0.00	0	2.4	394	0	0	0	842.30	-		-		-	79	-	-	-
Lighting	34	34					482	482					5,562	2.6		4.9	25,094	-	-	-	-	-	163.59	0.077		0.143	738	-	-	-	-	-
Capsylite (42W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
Capsylite (52W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
Capsylite (72W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
Capsylite, unknown	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
CFL (15W)	27	27					262	262					2,900	1.24		2.29	11,788	-	-	-	-	-	107.41	0.046		0.085	437	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
CFL (20W)	22	22					154	154					1,820	0.89		1.64	8,467	-	-	-	-	-	82.73	0.040		0.075	385	-	-	-	-	-
CFL (23W)	3	3					14	14					140	0.10		0.18	938	-	-	-	-	-	46.67	0.033		0.061	313	-	-	-	-	-
CFL (25W)	12	12					52	52					702	0.41		0.76	3,902	-	-	-	-	-	58.50	0.034		0.063	325	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
CFL, unknown	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.0	0.0	0.0	0.00	-		-	-	-	-	-	-	-
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.0	0.0	0.0	0.00	-		-	-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.0	0.0	0.0	0.00	-		-	-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.0	0.0	0.0	0.00	-		-	-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.0	0.0	0.0	0.00	-		-	-	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.0	0.0	0.0	0.00	-		-	-	-	-	-	-	-
Refrigerator/Freezer	24	24					78	78					36,158	6.85		6.40	55,670	-	-	-	-	-	1506.58	0.285		0.267	2,320					
Refrigerator Remova	2	2					4	4					60	0.50		0.47	4,083	-	-	-	-	-	30.00	0.251		0.235	2,042	-	-	-	-	-
Refrigerator Exchange	22	22					50	50					29,020	4.70		4.40	38,244	-	-	-	-	-	1319.09	0.214		0.200	1,738	-	-	-	-	-
Freezer Remova	1	1					2	2					30	0.18		0.16	1,425	-	-	-	-	-	30.00	0.175		0.164	1,425	-	-	-	-	-
Freezer Exchange	9	9					22	22					7,048	1.47		1.37	11,918	-	-	-	-	-	783.11	0.163		0.152	1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 40 Total Households with Spending and/or Energy Impacts:

Total		**260,544**	
Unspecified Insul	35	8,852	252.91
Duct Insulation	0	0	0.00
Duct Sealing	25	837	33.49
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	31	3,830	123.55
Htg. Sys./WH Other	35	19,127	546.50
Space Heater Repl	1	2,725	2725.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	14	5,176	369.71
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	4	400	100.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	13	968	74.45
Health/Safety Repairs	0	0	0.00
Health/Safety Other	1	140	140.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	39	61,835	1585.50
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	40	157,330	3933.26
Landlord Contr Misc	1	(676)	-676.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	0	0	0.00

Total Reported Materials, Labor, and Support Costs **540,237**

Grand Total of Expenditures **540,237**

MICA
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**82**	**82**	**75**	**5**	**2**	**0**			**597,854**	**23.8**		**66.3**		**237,413**	**469**	**46,282**	**4,516**	**751**	**0**
Shell & Htg. Sys.	82	82	71	5	2	0	67	80	538,634	10.6	12,401	44.8	71,434	83,835	463	44,184	4,487	751	0
Wall Insul.	52	52	43	5	2	0	38	52	150,751	0.04	48	15.01	23,940	23,988	152	14,581	1,535	240	0
Ceiling Insul.	70	70	60	5	2	0	55	70	121,419	9.95	11,610	11.77	18,725	30,335	89	8,482	714	110	0
Infil. Reduction	82	69	70	5	2	0	67	4	135,117	0.44	509	10.56	16,840	17,349	92	8,769	930	311	0
Found./Crawl. Insul	39	39	35	1	1	0	31	39	47,569	0.21	234	6.56	10,500	10,733	44	4,232	36	77	0
Bandjoist Insul.	47	47	40	3	1	0	-	47	14,284	0.00	0	0.90	1,430	1,430	6	604	47	12	0
Hi-Eff Htg Sys Repl	19	0	16	3	0	0	-	0	58,044	0.00	0	0.00	0	0	66	6,335	1,224	0	0
Std-Eff Htg Sys Repl	5	0	5	0	0	0	-	0	11,450	0.00	0	0.00	0	0	12	1,181	0	0	0
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	77	18	58	1	0	0	7,693	0.0	0.6	27,937	8.8	2,531	97	0	0
Temp. Reduct.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
Pipe Insul.	62	14	48	0	0	0	808	0.00	0.01	2,754	1.6	568	0	0	0
LF Showerheac	36	9	26	1	0	0	451	0.00	0.44	19,504	4.1	1,251	85	0	0
Faucet Aerator	54	14	39	1	0	0	553	0.00	0.08	3,570	0.9	286	13	0	0
Std-Eff Wtr Htr Repl.	7	1	6	0	0	0	5,880	0.00	0.05	2,110	2.2	426	0	0	0
Hi-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
Lighting	78	78					4,101	4.1	7.6	39,323	-	-	-	-	-
Capsylite (42W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (52W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (72W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite, unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (5W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (7W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (9W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (11W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (15W)	78	78					4,101	4.13	7.63	39,323	-	-	-	-	-
CFL (18W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (20W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (23W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (25W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (30W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL, unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
Waterbed Mattress Pad	9	9	7	1	0	0	338	0.00	4.79	12,649	-2.6	-434	-67.7	0.0	0.0
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Unknown	9	9	7	1	0	0	338	0.00	4.79	12,649	-2.6	-434	-67.7	0.0	0.0
Refrigerator/Freezer	37	37					47,088	9.06	8.47	73,670	-	-	-	-	-
Refrigerator Remova	0	0					0	0.00	0.00	0	-	-	-	-	-
Refrigerator Exchange	34	34					37,854	7.27	6.80	59,104	-	-	-	-	-
Freezer Remova	0	0					0	0.00	0.00	0	-	-	-	-	-
Freezer Exchange	11	11					9,234	1.79	1.68	14,566	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 82 Total Households with Spending and/or Energy Impacts:

Total		**402,757**
Unspecified Insul	1	1,312
Duct Insulation	0	0
Duct Sealing	58	35,636
Damming Materia	0	0
Htg. Sys. Tune & Clean	44	9,722
Htg. Sys./WH Other	40	11,151
Space Heater Repl	0	0
Air Conditioning Work	0	0
Water Heater Repair	18	3,435
Refrigerator Coil Clear	0	0
Unspecified Utility Meas	0	0
Asbestos Abatement	0	0
CO Detector	18	1,850
Smoke Detector	7	319
Fuses	0	0
Htg Sys Safety Check	82	24,555
Exhaust Ventilation	33	4,523
Health/Safety Repairs	0	0
Health/Safety Other	10	5,731
Consumables	0	0
Preservation	0	0
Roof Repairs	0	0
General Repairs	58	29,378
Evaluator Labor	0	0
Inspector Labor	0	0
Eval/Insp Labor	0	0
Meter Refrig (no action)	0	0
Meter Freezer (no action	0	0
Support	82	276,146
Landlord Contr Misc	1	(1,000)
Landlord Contr Furnace	0	0
Landlord Contr DHW	0	0
Client Contr Misc	0	0
Client Contr Refi	0	0
Warehouse	0	0
Unspecified	0	0

Total Reported Materials, Labor, and Support Costs **1,000,612**

Grand Total of Expenditures **1,000,612**

Average Estimated First Year Measure Cost and Savings Average per Treated Household

Measure	Spending on Materials & Labor ($)	Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**7290.91**	**0.146**		**0.377**		**2,895**	**6.251**	**617**	**903**	**375**	**-**
Shell & Htg. Sys.	6568.71	0.159	185	0.560	893	1,022	6.517	622	897	375	-
Wall Insul.	2899.07	0.001	1	0.289	460	461	3.546	339	307	120	-
Ceiling Insul.	1734.56	0.181	211	0.168	267	433	1.481	141	143	55	-
Infil. Reduction	1647.77	0.007	8	2.639	4,210	251	1.313	125	186	156	-
Found./Crawl. Insul	1219.72	0.007	8	0.168	269	275	1.263	121	36	77	-
Bandjoist Insul.	303.90	-	-	0.019	30	30	0.158	15	16	12	-
Hi-Eff Htg Sys Repl	3054.94	-	-	-	-	-	4.155	396	408	-	-
Std-Eff Htg Sys Repl	2290.03	-	-	-	-	-	2.479	236	-	-	-
Electric Htg Sys Repl	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0.00	-	-	-	-	-	-	-	-	-	-

Measure	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	99.91	0.000	0.032	1,552	0.152	44	97	-	-
Temp. Reduct.	0.00	-	-	-	-	-	-	-	-
WH Wrap	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	13.03	0.000	0.000	197	0.034	12	-	-	-
LF Showerheac	12.54	0.000	0.049	2,167	0.156	48	85	-	-
Faucet Aerator	10.25	0.000	0.006	255	0.024	7	13	-	-
Std-Eff Wtr Htr Repl.	840.06	0.000	0.052	2,110	0.363	71	-	-	-
Hi-Eff Wtr Htr Repl.	0.00	-	-	-	-	-	-	-	-
Lighting	52.58	0.053	0.098	504	-	-	-	-	-
Capsylite (42W)	0.00	-	-	-	-	-	-	-	-
Capsylite (52W)	0.00	-	-	-	-	-	-	-	-
Capsylite (72W)	0.00	-	-	-	-	-	-	-	-
Capsylite, unknown	0.00	-	-	-	-	-	-	-	-
CFL (5W)	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0.00	-	-	-	-	-	-	-	-
CFL (15W)	52.58	0.053	0.098	504	-	-	-	-	-
CFL (18W)	0.00	-	-	-	-	-	-	-	-
CFL (20W)	0.00	-	-	-	-	-	-	-	-
CFL (23W)	0.00	-	-	-	-	-	-	-	-
CFL (25W)	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0.00	-	-	-	-	-	-	-	-
CFL, unknown	0.00	-	-	-	-	-	-	-	-
Waterbed Mattress Pad	37.56	0.000	0.533	1,405	-0.376	-62	-68		
King	0.00	-	-	-	-	-	-	-	-
Queen	0.00	-	-	-	-	-	-	-	-
Double	0.00	-	-	-	-	-	-	-	-
Single	0.00	-	-	-	-	-	-	-	-
Unknown	37.56	0.000	0.533	1,405	-0.376	-62	-68	-	-
Refrigerator/Freezer	1272.65	0.245	0.229	1,991					
Refrigerator Remova	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	1113.35	0.214	0.200	1,738	-	-	-	-	-
Freezer Remova	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	839.46	0.163	0.152	1,324	-	-	-	-	-

Total		**1311.52**
Unspecified Insul	1,312	0.00
Duct Insulation	0	614.41
Duct Sealing	35,636	0.00
Damming Materia	0	220.95
Htg. Sys. Tune & Clean	9,722	278.78
Htg. Sys./WH Other	11,151	0.00
Space Heater Repl	0	0.00
Air Conditioning Work	0	190.81
Water Heater Repair	3,435	0.00
Refrigerator Coil Clear	0	0.00
Unspecified Utility Meas	0	0.00
Asbestos Abatement	0	102.76
CO Detector	1,850	45.60
Smoke Detector	319	0.00
Fuses	0	299.45
Htg Sys Safety Check	24,555	137.07
Exhaust Ventilation	4,523	0.00
Health/Safety Repairs	0	573.12
Health/Safety Other	5,731	0.00
Consumables	0	0.00
Preservation	0	0.00
Roof Repairs	0	506.52
General Repairs	29,378	0.00
Evaluator Labor	0	0.00
Inspector Labor	0	0.00
Eval/Insp Labor	0	0.00
Meter Refrig (no action)	0	0.00
Meter Freezer (no action	0	3367.63
Support	276,146	-1000.00
Landlord Contr Misc	(1,000)	0.00
Landlord Contr Furnace	0	0.00
Landlord Contr DHW	0	0.00
Client Contr Misc	0	0.00
Client Contr Refi	0	0.00
Warehouse	0	
Unspecified	0	

Mid-Sioux
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**65**	**64**	**44**	**12**	**4**	**0**			**439,348**	**33.8**		**50.3**		**213,912**	**294**	**29,094**	**7,064**	**1,117**	**0**	**6759.21**	**0.273**		**0.396**		**3,342**	**6.671**	**661**	**589**	**279**	**-**
Shell & Htg. Sys.	65	63	44	12	4	0	57	60	376,772	17.4	16,730	27.7	45,173	61,903	291	28,483	6,931	1,117	0	5796.49	0.305	294	0.462	753	983	6.619	647	578	279	-
Wall Insul.	37	37	26	6	3	0	34	37	84,718	2.55	2,665	11.96	19,443	22,108	88	8,595	1,724	620	0	2289.67	0.075	78	0.323	525	598	3.382	331	287	207	-
Ceiling Insul.	51	51	34	9	4	0	45	51	73,680	13.93	13,145	8.91	14,593	27,737	42	4,076	1,171	289	0	1444.71	0.310	292	0.175	286	544	1.224	120	130	72	-
Infil. Reduction	62	57	41	11	4	0	56	4	24,218	0.92	930	3.53	5,740	6,670	29	2,827	1,061	126	0	390.61	0.016	17	0.882	1,435	117	0.702	69	96	31	-
Found./Crawl. Insul	26	26	19	4	2	0	24	26	17,667	-0.03	(9)	3.04	4,886	4,876	19	1,821	666	52	0	679.51	-0.001	(0)	0.117	188	188	0.980	96	167	26	-
Bandjoist Insul.	27	27	18	5	3	0	-	27	3,999	0.00	0	0.31	512	512	2	223	71	30	0	148.11	-	-	0.012	19	19	0.127	12	14	10	-
Hi-Eff Htg Sys Repl	32	0	27	5	0	0	-	0	159,698	0.00	0	0.00	0	0	105	10,288	2,238	0	0	4990.55	-	-	-	-	-	3.901	381	448	-	-
Std-Eff Htg Sys Repl	2	0	2	0	0	0	-	0	12,574	0.00	0	0.00	0	0	7	653	0	0	0	6286.88	-	-	-	-	-	3.346	327	-	-	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	1	0	0	1	0	0	-	0	218	0.00	0	0.00	0	0	0	0	0	0	0	218.44	-	-	-	-	-	-	-	0	-	-

	Total	Electric	Gas	Propane	Fuel Oil	Other	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	24	5	17	2	0	0	14	6	4	4	0	0	8,164	0.0	0.1	7,684	2.3	611	133	0	0	340.17	0.000	0.021	1,537	0.134	36	67	-	-
Temp. Reduct.	0	0	0	0	0	0							0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
WH Wrap	17	2	15	0	0	0							578	0.00	0.00	962	0.9	320	0	0	0	34.00	0.000	0.001	481	0.062	21	-	-	-
Pipe Insul.	15	2	13	0	0	0							186	0.00	0.00	393	0.4	132	0	0	0	12.40	0.000	0.000	197	0.029	10	-	-	-
LF Showerheac	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Std-Eff Wtr Htr Repl.	6	3	1	2	0	0	12	6	2	4	0	0	6,600	0.00	0.10	6,329	0.4	61	133	0	0	1100.00	0.000	0.035	2,110	0.374	61	67	-	-
Hi-Eff Wtr Htr Repl.	1	0	1	0	0	0	2	0	2	0	0	0	800	0.00	0.00	0	0.6	98	0	0	0	800.00	-	-	-	0.598	98	-	-	-
Lighting	62	62					982	982					14,543	7.7	14.3	73,492	-	-	-	-	-	234.56	0.124	0.230	1,185	-	-	-	-	-
Capsylite (42W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Capsylite (52W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Capsylite (72W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Capsylite, unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (23W)	58	58					816	816					11,751	5.74	10.60	54,647	-	-	-	-	-	202.60	0.099	0.183	942	-	-	-	-	-
CFL (25W)	4	4					24	24					394	0.19	0.35	1,801	-	-	-	-	-	98.50	0.047	0.087	450	-	-	-	-	-
CFL (30W)	17	17					142	142					2,398	1.79	3.31	17,044	-	-	-	-	-	141.06	0.105	0.194	1,003	-	-	-	-	-
CFL, unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	28	28					88	88					39,870	8.71	8.15	70,832	-	-	-	-	-	1423.91	0.311	0.291	2,530					
Refrigerator Remova	7	7					14	14					700	1.76	1.64	14,292	-	-	-	-	-	100.00	0.251	0.235	2,042	-	-	-	-	-
Refrigerator Exchange	17	17					34	34					24,120	3.63	3.40	29,552	-	-	-	-	-	1418.81	0.214	0.200	1,738	-	-	-	-	-
Freezer Remova	5	5					10	10					500	0.88	0.82	7,125	-	-	-	-	-	100.00	0.175	0.164	1,425	-	-	-	-	-
Freezer Exchange	15	15					30	30					14,550	2.44	2.28	19,863	-	-	-	-	-	969.99	0.163	0.152	1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 65 Total Households with Spending and/or Energy Impacts:

Total		**224,585**	
Unspecified Insul	47	3,597	76.53
Duct Insulation	0	0	0.00
Duct Sealing	17	392	23.05
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	25	7,011	280.43
Htg. Sys./WH Other	11	8,695	790.48
Space Heater Repl	1	4,850	4850.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	2	838	418.92
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	19	2,614	137.59
Smoke Detector	3	118	39.32
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	16	1,506	94.13
Health/Safety Repairs	0	0	0.00
Health/Safety Other	1	72	71.88
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	42	11,450	272.63
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	65	184,896	2844.56
Landlord Contr Misc	3	(1,324)	-441.46
Landlord Contr Furnace	1	(215)	-214.58
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	2	85	42.68

Total Reported Materials, Labor, and Support Costs **663,934**

Grand Total of Expenditures **663,934**

City of Des Moines
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**112**	**112**	**112**	**0**	**0**	**0**			**687,916**	**39.0**		**31.8**		**201,086**	**801**	**73,410**	**0**	**0**	**0**	**6142.11**	**0.312**		**0.265**		**1,795**	**7.150**	**655**	**-**	**-**	**-**
Shell & Htg. Sys.	112	111	111	0	0	0	111	106	594,137	19.8	23,888	13.3	20,101	43,989	790	71,386	0	0	0	5304.79	0.178	215	0.125	190	396	7.121	643	-	-	-
Wall Insul.	90	90	90	0	0	0	90	90	204,136	8.42	10,156	8.37	12,666	22,822	338	30,566	0	0	0	2268.18	0.094	113	0.093	141	254	3.761	340	-	-	-
Ceiling Insul.	95	95	95	0	0	0	95	95	139,939	12.50	15,075	3.00	4,537	19,611	119	10,740	0	0	0	1473.04	0.132	159	0.032	48	206	1.252	113	-	-	-
Infil. Reduction	111	111	110	0	0	0	111	1	96,736	1.12	1,351	0.75	1,129	2,480	140	12,663	0	0	0	871.50	0.010	12	0.746	1,129	22	1.275	115	-	-	-
Found./Crawl. Insul	37	37	37	0	0	0	37	37	22,806	-2.23	(2,694)	1.03	1,554	(1,140)	41	3,664	0	0	0	616.38	-0.060	(73)	0.028	42	(31)	1.097	99	-	-	-
Bandjoist Insul.	29	29	29	0	0	0	-	29	5,666	0.00	0	0.14	215	215	5	438	0	0	0	195.38	-	-	0.005	7	7	0.167	15	-	-	-
Hi-Eff Htg Sys Repl	14	0	14	0	0	0	-	0	40,352	0.00	0	0.00	0	0	62	5,624	0	0	0	2882.29	-	-	-	-	-	4.448	402	-	-	-
Std-Eff Htg Sys Repl	24	0	24	0	0	0	-	0	76,902	0.00	0	0.00	0	0	73	6,637	0	0	0	3204.25	-	-	-	-	-	3.062	277	-	-	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	4	0	4	0	0	0	-	0	7,600	0.00	0	0.00	0	0	12	1,053	0	0	0	1900.00	-	-	-	-	-	2.916	263	-	-	-

	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	62	0	62	0	0	0	56	0	56	0	0	0	20,941	0.0	0.0	0	10.4	2,024	0	0	0	337.76	-	-	-	0.167	33	-	-	-
Temp. Reduct.	0	0	0	0	0	0							0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
WH Wrap	1	0	1	0	0	0							20	0.00	0.00	0	0.1	24	0	0	0	20.00	-	-	-	0.070	24	-	-	-
Pipe Insul.	46	0	46	0	0	0							2,080	0.00	0.00	0	1.5	533	0	0	0	45.22	-	-	-	0.033	12	-	-	-
LF Showerheac	2	0	2	0	0	0	4	0	4	0	0	0	60	0.00	0.00	0	0.1	45	0	0	0	30.00	-	-	-	0.072	22	-	-	-
Faucet Aerator	3	0	3	0	0	0	12	0	12	0	0	0	110	0.00	0.00	0	0.1	31	0	0	0	36.67	-	-	-	0.034	10	-	-	-
Std-Eff Wtr Htr Repl.	20	0	20	0	0	0	40	0	40	0	0	0	18,671	0.00	0.00	0	8.5	1,391	0	0	0	933.55	-	-	-	0.426	70	-	-	-
Hi-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Lighting	14	14					90	90					1,193	0.6	1.1	5,875	-	-	-	-	-	85.18	0.044	0.081	420	-	-	-	-	-
Capsylite (42W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Capsylite (52W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Capsylite (72W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Capsylite, unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	6	6					26	26					345	0.12	0.23	1,170	-	-	-	-	-	57.42	0.020	0.038	195	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (23W)	3	3					12	12					159	0.08	0.16	804	-	-	-	-	-	53.00	0.028	0.052	268	-	-	-	-	-
CFL (25W)	8	8					52	52					689	0.41	0.76	3,902	-	-	-	-	-	86.13	0.051	0.095	488	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL, unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	70	70					182	182					71,646	18.60	17.39	151,221	-	-	-	-	-	1023.51	0.266	0.248	2,160					
Refrigerator Remova	7	7					14	14					192	1.76	1.64	14,292	-	-	-	-	-	27.43	0.251	0.235	2,042	-	-	-	-	-
Refrigerator Exchange	65	65					132	132					60,361	13.90	12.99	112,993	-	-	-	-	-	928.64	0.214	0.200	1,738	-	-	-	-	-
Freezer Remova	1	1					2	2					24	0.18	0.16	1,425	-	-	-	-	-	24.00	0.175	0.164	1,425	-	-	-	-	-
Freezer Exchange	17	17					34	34					11,068	2.77	2.59	22,511	-	-	-	-	-	651.08	0.163	0.152	1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 113 Total Households with Spending and/or Energy Impacts:

Total		**665,501**	
Unspecified Insul	91	35,614	391.36
Duct Insulation	0	0	0.00
Duct Sealing	91	29,984	329.49
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	110	11,629	105.72
Htg. Sys./WH Other	83	54,659	658.55
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	22	11,172	507.82
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	10	15,430	1543.00
CO Detector	36	4,320	120.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	79	24,392	308.76
Health/Safety Repairs	0	0	0.00
Health/Safety Other	26	10,657	409.89
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	104	89,715	862.64
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	111	375,477	3382.67
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	13	2,452	188.62

Total Reported Materials, Labor, and Support Costs **1,353,417**

Grand Total of Expenditures **1,353,417**

North Iowa
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**132**	**132**	**87**	**43**	**2**	**0**			**585,050**	**28.1**		**36.2**		**185,879**	**433**	**43,303**	**26,286**	**640**	**0**	**4432.19**	**0.126**		**0.156**		**1,408**	**4.981**	**498**	**611**	**320**	**-**
Shell & Htg. Sys.	132	132	86	43	2	0	116	124	499,944	10.6	10,706	15.6	26,004	36,710	432	42,876	26,286	640	0	3787.45	0.091	92	0.126	210	278	5.023	499	611	320	-
Wall Insul.	54	54	36	18	0	0	46	54	82,018	5.99	6,011	3.61	5,995	12,006	93	9,227	4,931	0	0	1518.85	0.130	131	0.067	111	222	2.578	256	274	-	-
Ceiling Insul.	111	111	73	36	1	0	97	111	176,251	4.10	4,195	9.04	15,058	19,253	110	10,856	5,859	52	0	1587.85	0.042	43	0.081	136	173	1.501	149	163	52	-
Infil. Reduction	123	108	78	41	2	0	108	1	40,123	-0.16	(161)	1.65	2,757	2,595	91	9,014	6,192	128	0	326.20	-0.002	(1)	1.650	2,757	24	1.167	116	151	64	-
Found./Crawl. Insul	46	46	24	21	0	0	42	46	16,129	0.65	661	1.07	1,777	2,438	14	1,366	1,151	0	0	350.64	0.015	16	0.023	39	53	0.573	57	55	-	-
Bandjoist Insul.	60	60	37	21	2	0	-	60	6,210	0.00	0	0.25	418	418	6	556	344	22	0	103.50	-	-	0.004	7	7	0.151	15	16	11	-
Hi-Eff Htg Sys Repl	43	0	27	15	1	0	-	0	149,411	0.00	0	0.00	0	0	106	10,547	7,494	252	0	3474.67	-	-	-	-	-	3.918	391	500	252	-
Std-Eff Htg Sys Repl	7	0	5	1	1	0	-	0	29,729	0.00	0	0.00	0	0	13	1,309	315	186	0	4246.97	-	-	-	-	-	2.693	262	315	186	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	1	0	0	1	0	0	-	0	72	0.00	0	0.00	0	0	0	0	0	0	0	72.26	-	-	-	-	-	-	-	0	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other																								
Water Heating	10	0	10	0	0	0	22	0	22	0	0	0	6,531	0.0		0.0		0	1.4	427	0	0	0	653.05	-		-		-	0.138	43	-	-	-
Temp. Reduct.	0	0	0	0	0	0							0	0.00		0.00		0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0							0	0.00		0.00		0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-
Pipe Insul.	2	0	2	0	0	0							21	0.00		0.00		0	0.1	19	0	0	0	10.48	-		-		-	0.028	10	-	-	-
LF Showerheac	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-
Faucet Aerator	3	0	3	0	0	0	10	0	10	0	0	0	20	0.00		0.00		0	0.0	11	0	0	0	6.53	-		-		-	0.012	4	-	-	-
Std-Eff Wtr Htr Repl.	2	0	2	0	0	0	4	0	4	0	0	0	2,262	0.00		0.00		0	0.7	117	0	0	0	1131.00	-		-		-	0.358	58	-	-	-
Hi-Eff Wtr Htr Repl.	3	0	3	0	0	0	8	0	8	0	0	0	4,228	0.00		0.00		0	0.6	280	0	0	0	1409.32	-		-		-	0.191	93	-	-	-
Lighting	108	108					976	976					9,749	4.6		8.5		43,912	-	-	-	-	-	90.27	0.043		0.079		407	-	-	-	-	-
Capsylite (42W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite (52W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite (72W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite, unknown	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (15W)	108	108					976	976					9,749	4.61		8.52		43,912	-	-	-	-	-	90.27	0.043		0.079		407	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (20W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (23W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL, unknown	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Refrigerator/Freezer	53	53					138	138					68,826	12.95		12.10		105,258	-	-	-	-	-	1298.60	0.244		0.228		1,986					
Refrigerator Remova	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Refrigerator Exchange	36	36					74	74					44,300	7.70		7.20		62,581	-	-	-	-	-	1230.55	0.214		0.200		1,738	-	-	-	-	-
Freezer Remova	3	3					6	6					220	0.53		0.49		4,275	-	-	-	-	-	73.33	0.175		0.164		1,425	-	-	-	-	-
Freezer Exchange	29	29					58	58					24,306	4.72		4.42		38,402	-	-	-	-	-	838.15	0.163		0.152		1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 132 Total Households with Spending and/or Energy Impacts:

Total		**469,504**	
Unspecified Insul	89	14,288	160.54
Duct Insulation	0	0	0.00
Duct Sealing	48	2,504	52.16
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	105	12,818	122.08
Htg. Sys./WH Other	51	19,220	376.86
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	21	3,184	151.63
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	43	3,842	89.35
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	127	16,561	130.40
Exhaust Ventilation	71	16,794	236.53
Health/Safety Repairs	0	0	0.00
Health/Safety Other	13	3,738	287.51
Consumables	132	5,581	42.28
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	117	93,966	803.13
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	132	279,123	2114.57
Landlord Contr Misc	3	(2,116)	-705.33
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	0	0	0.00

Total Reported Materials, Labor, and Support Costs **1,054,553**

Grand Total of Expenditures **1,054,553**

NE Iowa
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Peak-Day therms	Gas Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**102**	**101**	**61**	**38**	**3**	**0**			**596,316**	**22.0**		**25.7**		**164,738**	**324**	**32,146**	**20,937**	**924**	**0**
Shell & Htg. Sys.	101	92	60	37	3	0	34	89	525,021	6.8	7,301	9.2	15,108	22,409	320	31,293	20,373	924	0
Wall Insul.	47	47	32	15	0	0	18	47	70,445	4.27	4,560	3.31	5,417	9,977	90	8,754	3,878	0	0
Ceiling Insul.	69	69	40	25	3	0	25	69	64,086	1.61	1,773	3.59	5,921	7,694	42	4,065	2,874	149	0
Infil. Reduction	92	33	59	29	3	0	32	1	73,968	1.04	1,135	0.17	275	1,410	58	5,632	3,818	303	0
Found./Crawl. Insul	35	35	18	13	3	0	11	35	42,696	-0.16	(167)	1.75	2,879	2,712	17	1,663	2,241	143	0
Bandjoist Insul.	23	23	12	10	0	0	-	23	5,294	0.00	0	0.37	616	616	2	201	191	0	0
Hi-Eff Htg Sys Repl	41	0	23	17	1	0	-	0	215,995	0.00	0	0.00	0	0	89	8,686	6,681	329	0
Std-Eff Htg Sys Repl	11	0	9	2	0	0	-	0	52,537	0.00	0	0.00	0	0	23	2,292	689	0	0
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Electricity Winter kW	Electricity Annual kWh	Gas Peak-Day therms	Gas Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	87	29	44	14	0	0	11,168	0.0	0.2	15,100	3.3	853	563	0	0
Temp. Reduct.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
WH Wrap	9	3	3	3	0	0	220	0.00	0.00	1,443	0.2	71	78	0	0
Pipe Insul.	84	28	43	13	0	0	259	0.00	0.01	5,508	1.4	487	161	0	0
LF Showerheac	2	1	0	1	0	0	7	0.00	0.00	188	0.0	0	24	0	0
Faucet Aerator	7	2	4	1	0	0	11	0.00	0.01	367	0.1	23	4	0	0
Std-Eff Wtr Htr Repl.	10	2	4	4	0	0	9,799	0.00	0.05	4,219	1.7	272	297	0	0
Hi-Eff Wtr Htr Repl.	1	1	0	0	0	0	872	0.00	0.08	3,375	0.0	0	0	0	0
Lighting	89	89					1,512	2.3	4.2	21,850	-	-	-	-	-
Capsylite (42W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (52W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (72W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite, unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (5W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (7W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (9W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (11W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (15W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (18W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (20W)	51	51					912	1.21	2.24	11,546	-	-	-	-	-
CFL (23W)	30	30					472	0.83	1.53	7,902	-	-	-	-	-
CFL (25W)	8	8					128	0.25	0.47	2,401	-	-	-	-	-
CFL (30W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL, unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.0	0.0	0.0
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Refrigerator/Freezer	44	44					58,616	12.96	12.12	105,379	-	-	-	-	-
Refrigerator Remova	4	4					200	1.00	0.94	8,167	-	-	-	-	-
Refrigerator Exchange	36	36					40,574	7.70	7.20	62,581	-	-	-	-	-
Freezer Remova	2	2					80	0.35	0.33	2,850	-	-	-	-	-
Freezer Exchange	24	24					17,762	3.91	3.65	31,781	-	-	-	-	-

Measure	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Peak-Day therms	Gas Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**5846.24**	**0.145**		**0.124**		**1,631**	**5.306**	**527**	**551**	**308**	**-**
Shell & Htg. Sys.	5198.22	0.199	215	0.103	170	244	5.339	522	551	308	-
Wall Insul.	1498.82	0.237	253	0.070	115	212	2.802	274	259	-	-
Ceiling Insul.	928.78	0.064	71	0.052	86	112	1.040	102	115	50	-
Infil. Reduction	804.00	0.033	35	0.165	275	43	0.978	95	132	101	-
Found./Crawl. Insul	1219.90	-0.015	(15)	0.050	82	77	0.942	92	172	48	-
Bandjoist Insul.	230.18	-	-	0.016	27	27	0.171	17	19	-	-
Hi-Eff Htg Sys Repl	5268.16	-	-	-	-	-	3.867	378	393	329	-
Std-Eff Htg Sys Repl	4776.13	-	-	-	-	-	2.606	255	345	-	-
Electric Htg Sys Repl	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0.00	-	-	-	-	-	-	-	-	-	-

Measure	Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	128.37	0.000	0.006	521	0.076	19	40	-	-
Temp. Reduct.	0.00	-	-	-	-	-	-	-	-
WH Wrap	24.44	0.000	0.001	481	0.069	24	26	-	-
Pipe Insul.	3.09	0.000	0.000	197	0.033	11	12	-	-
LF Showerheac	3.64	0.000	0.004	188	-	-	24	-	-
Faucet Aerator	1.54	0.000	0.004	184	0.019	6	4	-	-
Std-Eff Wtr Htr Repl.	979.89	0.000	0.026	2,110	0.417	68	74	-	-
Hi-Eff Wtr Htr Repl.	871.50	0.000	0.083	3,375	-	-	-	-	-
Lighting	16.99	0.026	0.048	246	-	-	-	-	-
Capsylite (42W)	0.00	-	-	-	-	-	-	-	-
Capsylite (52W)	0.00	-	-	-	-	-	-	-	-
Capsylite (72W)	0.00	-	-	-	-	-	-	-	-
Capsylite, unknown	0.00	-	-	-	-	-	-	-	-
CFL (5W)	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0.00	-	-	-	-	-	-	-	-
CFL (15W)	0.00	-	-	-	-	-	-	-	-
CFL (18W)	0.00	-	-	-	-	-	-	-	-
CFL (20W)	17.88	0.024	0.044	226	-	-	-	-	-
CFL (23W)	15.73	0.028	0.051	263	-	-	-	-	-
CFL (25W)	16.00	0.032	0.058	300	-	-	-	-	-
CFL (30W)	0.00	-	-	-	-	-	-	-	-
CFL, unknown	0.00	-	-	-	-	-	-	-	-
Waterbed Mattress Pad	0.00	-	-	-	-	-	-	-	-
King	0.00	-	-	-	-	-	-	-	-
Queen	0.00	-	-	-	-	-	-	-	-
Double	0.00	-	-	-	-	-	-	-	-
Single	0.00	-	-	-	-	-	-	-	-
Unknown	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	1332.18	0.295	0.275	2,395					
Refrigerator Remova	50.00	0.251	0.235	2,042	-	-	-	-	-
Refrigerator Exchange	1127.06	0.214	0.200	1,738	-	-	-	-	-
Freezer Remova	40.00	0.175	0.164	1,425	-	-	-	-	-
Freezer Exchange	740.08	0.163	0.152	1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 102 Total Households with Spending and/or Energy Impacts:

Total		**416,142**	
Unspecified Insul	84	32,077	381.87
Duct Insulation	0	0	0.00
Duct Sealing	6	1,804	300.61
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	43	9,004	209.40
Htg. Sys./WH Other	66	33,178	502.69
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	12	3,133	261.05
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	65	6,494	99.91
Smoke Detector	11	107	9.74
Fuses	0	0	0.00
Htg Sys Safety Check	12	2,429	202.44
Exhaust Ventilation	57	25,286	443.62
Health/Safety Repairs	0	0	0.00
Health/Safety Other	3	2,620	873.19
Consumables	72	2,406	33.41
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	64	28,715	448.67
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	101	268,326	2656.69
Landlord Contr Misc	1	564	564.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	0	0	0.00

Total Reported Materials, Labor, and Support Costs **1,012,459**

Grand Total of Expenditures **1,012,459**

New View
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**68**	**66**	**61**	**8**	**1**	**0**			**358,590**	**27.3**		**21.2**		**131,098**	**136**	**13,043**	**1,926**	**246**	**0**	**5273.38**	**0.208**		**0.160**		**1,986**	**2.228**	**214**	**241**	**246**	**-**
Shell & Htg. Sys.	68	66	60	7	1	0	64	66	307,731	15.2	16,635	6.1	9,691	26,326	134	12,750	1,875	246	0	4525.46	0.237	260	0.092	147	399	2.241	213	268	246	-
Wall Insul.	39	39	35	2	1	0	38	38	75,520	6.16	6,886	3.34	5,314	12,200	43	4,048	175	68	0	1936.41	0.162	181	0.088	140	313	1.221	116	87	68	-
Ceiling Insul.	62	62	57	4	1	0	60	62	99,173	7.85	8,546	2.18	3,468	12,014	29	2,737	233	40	0	1599.56	0.131	142	0.035	56	194	0.506	48	58	40	-
Infil. Reduction	66	64	55	6	1	0	64	0	17,403	0.95	1,037	0.00	0	1,037	31	2,927	236	51	0	263.69	0.015	16	-	-	16	0.562	53	39	51	-
Found./Crawl. Insul	14	14	12	2	0	0	14	14	10,415	0.22	166	0.42	664	831	5	442	146	0	0	743.91	0.016	12	0.030	47	59	0.389	37	73	-	-
Bandjoist Insul.	29	29	26	2	1	0	-	29	4,277	0.00	0	0.15	244	244	2	185	16	5	0	147.48	-	-	0.005	8	8	0.075	7	8	5	-
Hi-Eff Htg Sys Repl	1	0	1	0	0	0	-	0	5,780	0.00	0	0.00	0	0	2	146	0	0	0	5780.00	-	-	-	-	-	1.541	146	-	-	-
Std-Eff Htg Sys Repl	29	0	21	7	1	0	-	0	93,163	0.00	0	0.00	0	0	23	2,223	1,070	82	0	3212.53	-	-	-	-	-	1.113	106	153	82	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	1	0	1	0	0	0	-	0	2,000	0.00	0	0.00	0	0	0	43	0	0	0	2000.00	-	-	-	-	-	0.454	43	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other																								
Water Heating	12	1	9	2	0	0	20	0	18	2	0	0	7,831	0.0		0.0		678	1.4	293	51	0	0	652.55	0.000		0.001		678	0.158	33	25	-	-
Temp. Reduct.	0	0	0	0	0	0							0	0.00		0.00		0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-
WH Wrap	4	1	2	1	0	0							183	0.00		0.00		481	0.1	24	13	0	0	45.75	0.000		0.001		481	0.035	12	13	-	-
Pipe Insul.	2	1	1	0	0	0							49	0.00		0.00		197	0.0	6	0	0	0	24.29	0.000		0.000		197	0.016	6	-	-	-
LF Showerheac	1	0	1	0	0	0	2	0	2	0	0	0	14	0.00		0.00		0	0.1	20	0	0	0	14.00	-		-		-	0.065	20	-	-	-
Faucet Aerator	1	0	1	0	0	0	2	0	2	0	0	0	5	0.00		0.00		0	0.0	3	0	0	0	5.00	-		-		-	0.010	3	-	-	-
Std-Eff Wtr Htr Repl.	8	0	7	1	0	0	16	0	14	2	0	0	7,580	0.00		0.00		0	1.3	241	38	0	0	947.50	-		-		-	0.181	34	38	-	-
Hi-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-
Lighting	66	66					662	662					7,474	4.2		7.8		40,137	-	-	-	-	-	113.24	0.064		0.118		608	-	-	-	-	-
Capsylite (42W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite (52W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite (72W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite, unknown	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (15W)	15	15					142	142					1,812	0.67		1.24		6,389	-	-	-	-	-	120.80	0.045		0.083		426	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (20W)	13	13					122	122					1,262	0.70		1.30		6,708	-	-	-	-	-	97.08	0.054		0.100		516	-	-	-	-	-
CFL (23W)	35	35					350	350					3,808	2.46		4.55		23,439	-	-	-	-	-	108.80	0.070		0.130		670	-	-	-	-	-
CFL (25W)	5	5					48	48					592	0.38		0.70		3,602	-	-	-	-	-	118.40	0.076		0.140		720	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL, unknown	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Refrigerator/Freezer	30	30					78	78					35,554	7.87		7.36		63,957	-	-	-	-	-	1185.13	0.262		0.245		2,132					
Refrigerator Remova	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Refrigerator Exchange	29	29					58	58					31,608	6.20		5.80		50,412	-	-	-	-	-	1089.93	0.214		0.200		1,738	-	-	-	-	-
Freezer Remova	3	3					6	6					130	0.53		0.49		4,275	-	-	-	-	-	43.33	0.175		0.164		1,425	-	-	-	-	-
Freezer Exchange	7	7					14	14					3,816	1.14		1.07		9,269	-	-	-	-	-	545.14	0.163		0.152		1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 68 Total Households with Spending and/or Energy Impacts:

Total		**262,131**	
Unspecified Insul	55	15,990	290.73
Duct Insulation	0	0	0.00
Duct Sealing	31	778	25.11
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	36	1,694	47.04
Htg. Sys./WH Other	37	42,031	1135.97
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	1	940	940.00
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	28	3,695	131.98
Smoke Detector	2	171	85.59
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilatior	33	5,773	174.93
Health/Safety Repairs	0	0	0.00
Health/Safety Other	7	1,652	236.07
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	48	21,452	446.91
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	68	167,955	2469.92
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	0	0	0.00

Total Reported Materials, Labor, and Support Costs **620,721**

Grand Total of Expenditures **620,721**

Threshold
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**117**	**117**	**114**	**2**	**1**	**0**			**656,553**	**31.3**		**31.0**		**179,462**	**699**	**69,306**	**976**	**369**	**0**
Shell & Htg. Sys.	117	116	114	2	1	0	78	115	566,879	14.8	16,294	11.7	19,105	35,398	688	66,831	965	369	0
Wall Insul.	99	99	97	1	1	0	63	99	214,188	10.93	12,108	7.83	12,765	24,872	277	26,882	397	168	0
Ceiling Insul.	99	99	97	1	1	0	65	99	140,053	2.76	3,009	2.99	4,873	7,882	105	10,190	159	108	0
Infil. Reduction	116	78	113	2	1	0	78	0	53,411	1.09	1,194	0.00	0	1,194	90	8,752	371	66	0
Found./Crawl. Insul	32	32	30	1	1	0	25	32	12,418	-0.02	(17)	0.58	938	921	20	1,917	21	15	0
Bandjoist Insul.	75	75	73	1	1	0	-	75	5,881	0.00	0	0.32	530	530	11	1,089	17	12	0
Hi-Eff Htg Sys Repl	45	0	45	0	0	0	-	0	135,618	0.00	0	0.00	0	0	183	17,802	0	0	0
Std-Eff Htg Sys Repl	1	0	1	0	0	0	-	0	5,308	0.00	0	0.00	0	0	2	200	0	0	0
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Winter kW	Annual kWh	Gas: Peak-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	102	9	92	1	0	0	48	2	46	0	0	0	20,822	0.0	0.0	3,880	10.8	2,475	11	0	0
Temp. Reduct.	0	0	0	0	0	0							0	0.00	0.00	0	0.0	0	0	0	0
WH Wrap	0	0	0	0	0	0							0	0.00	0.00	0	0.0	0	0	0	0
Pipe Insul.	101	9	91	1	0	0							1,212	0.00	0.00	1,770	2.6	898	11	0	0
LF Showerheac	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
Faucet Aerator	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
Std-Eff Wtr Htr Repl.	10	1	9	0	0	0	20	2	18	0	0	0	8,790	0.00	0.00	2,110	1.8	533	0	0	0
Hi-Eff Wtr Htr Repl.	11	0	11	0	0	0	28	0	28	0	0	0	10,820	0.00	0.00	0	6.4	1,043	0	0	0
Lighting	98	98					600	600					2,894	4.2	7.7	39,942	-	-	-	-	-
Capsylite (42W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (52W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (72W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite, unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (15W)	2	2					6	6					26	0.03	0.05	270	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (20W)	3	3					28	28					425	0.16	0.30	1,539	-	-	-	-	-
CFL (23W)	96	96					560	560					2,418	3.94	7.28	37,503	-	-	-	-	-
CFL (25W)	1	1					2	2					10	0.02	0.03	150	-	-	-	-	-
CFL (30W)	1	1					4	4					15	0.05	0.09	480	-	-	-	-	-
CFL, unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.0	0.0	0.0
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Refrigerator/Freezer	53	53					128	128					65,958	12.33	11.53	100,241	-	-	-	-	-
Refrigerator Remova	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-
Refrigerator Exchange	47	47					96	96					55,172	10.05	9.40	81,703	-	-	-	-	-
Freezer Remova	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-
Freezer Exchange	14	14					32	32					10,786	2.28	2.13	18,539	-	-	-	-	-

Measure	Other Mbtu	Spending on Materials & Labor ($)	Average per Treated Household: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**0**	**5611.56**	**0.169**		**0.140**		**1,534**	**6.128**	**608**	**488**	**369**	**-**
Shell & Htg. Sys.	0	4845.12	0.189	209	0.102	166	305	6.033	586	483	369	-
Wall Insul.	0	2163.52	0.173	192	0.079	129	251	2.852	277	397	168	-
Ceiling Insul.	0	1414.68	0.043	46	0.030	49	80	1.081	105	159	108	-
Infil. Reduction	0	460.44	0.014	15	-	-	15	0.797	77	186	66	-
Found./Crawl. Insul	0	388.08	-0.001	(1)	0.018	29	29	0.657	64	21	15	-
Bandjoist Insul.	0	78.42	-	-	0.004	7	7	0.154	15	17	12	-
Hi-Eff Htg Sys Repl	0	3013.74	-	-	-	-	-	4.070	396	-	-	-
Std-Eff Htg Sys Repl	0	5308.00	-	-	-	-	-	2.060	200	-	-	-
Electric Htg Sys Repl	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0.00	-	-	-	-	-	-	-	-	-	-

Measure	Other Mbtu	Spending on Materials & Labor ($)	Average per Treated Household: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	0	204.14	0.000		0.000		431	0.117	27	11	-	-
Temp. Reduct.	0	0.00	-		-		-	-	-	-	-	-
WH Wrap	0	0.00	-		-		-	-	-	-	-	-
Pipe Insul.	0	12.00	0.000		0.000		197	0.028	10	11	-	-
LF Showerheac	0	0.00	-		-		-	-	-	-	-	-
Faucet Aerator	0	0.00	-		-		-	-	-	-	-	-
Std-Eff Wtr Htr Repl.	0	879.00	0.000		0.000		2,110	0.202	59	-	-	-
Hi-Eff Wtr Htr Repl.	0	983.64	-		-		-	0.581	95	-	-	-
Lighting	-	29.53	0.043		0.079		408	-	-	-	-	-
Capsylite (42W)	-	0.00	-		-		-	-	-	-	-	-
Capsylite (52W)	-	0.00	-		-		-	-	-	-	-	-
Capsylite (72W)	-	0.00	-		-		-	-	-	-	-	-
Capsylite, unknown	-	0.00	-		-		-	-	-	-	-	-
CFL (5W)	-	0.00	-		-		-	-	-	-	-	-
CFL (7W)	-	0.00	-		-		-	-	-	-	-	-
CFL (9W)	-	0.00	-		-		-	-	-	-	-	-
CFL (11W)	-	0.00	-		-		-	-	-	-	-	-
CFL (15W)	-	13.14	0.014		0.026		135	-	-	-	-	-
CFL (18W)	-	0.00	-		-		-	-	-	-	-	-
CFL (20W)	-	141.66	0.054		0.100		513	-	-	-	-	-
CFL (23W)	-	25.18	0.041		0.076		391	-	-	-	-	-
CFL (25W)	-	9.60	0.016		0.029		150	-	-	-	-	-
CFL (30W)	-	15.28	0.050		0.093		480	-	-	-	-	-
CFL, unknown	-	0.00	-		-		-	-	-	-	-	-
Waterbed Mattress Pad	0.0	0.00	-		-		-	-	-	-	-	-
King	0.0	0.00	-		-		-	-	-	-	-	-
Queen	0.0	0.00	-		-		-	-	-	-	-	-
Double	0.0	0.00	-		-		-	-	-	-	-	-
Single	0.0	0.00	-		-		-	-	-	-	-	-
Unknown	0.0	0.00	-		-		-	-	-	-	-	-
Refrigerator/Freezer	-	1244.49	0.233		0.218		1,891					
Refrigerator Remova	-	0.00	-		-		-	-	-	-	-	-
Refrigerator Exchange	-	1173.87	0.214		0.200		1,738	-	-	-	-	-
Freezer Remova	-	0.00	-		-		-	-	-	-	-	-
Freezer Exchange	-	770.43	0.163		0.152		1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 117 Total Households with Spending and/or Energy Impacts:

Total		**497,797**
Unspecified Insul	94	28,263
Duct Insulation	0	0
Duct Sealing	65	5,583
Damming Materia	0	0
Htg. Sys. Tune & Clean	83	15,530
Htg. Sys./WH Other	41	8,527
Space Heater Repl	0	0
Air Conditioning Work	21	1,866
Water Heater Repair	12	2,922
Refrigerator Coil Clear	0	0
Unspecified Utility Meas	0	0
Asbestos Abatement	0	0
CO Detector	46	3,098
Smoke Detector	0	0
Fuses	0	0
Htg Sys Safety Check	117	19,860
Exhaust Ventilation	87	49,498
Health/Safety Repairs	0	0
Health/Safety Other	12	3,244
Consumables	19	889
Preservation	0	0
Roof Repairs	0	0
General Repairs	97	48,925
Evaluator Labor	1	284
Inspector Labor	1	259
Eval/Insp Labor	0	0
Meter Refrig (no action)	0	0
Meter Freezer (no action	1	0
Support	117	313,522
Landlord Contr Misc	8	(4,474)
Landlord Contr Furnace	0	0
Landlord Contr DHW	0	0
Client Contr Misc	0	0
Client Contr Refi	0	0
Warehouse	0	0
Unspecified	0	0

		Average Estimated First Year Measure Cost and Savings
		Average per Treated Household
Total Reported Materials, Labor, and Support Costs		**1,154,350**
Grand Total of Expenditures		**1,154,350**

		Average per Treated Household
Unspecified Insul	94	300.67
Duct Insulation	0	0.00
Duct Sealing	65	85.89
Damming Materia	0	0.00
Htg. Sys. Tune & Clean	83	187.11
Htg. Sys./WH Other	41	207.97
Space Heater Repl	0	0.00
Air Conditioning Work	21	88.87
Water Heater Repair	12	243.53
Refrigerator Coil Clear	0	0.00
Unspecified Utility Meas	0	0.00
Asbestos Abatement	0	0.00
CO Detector	46	67.35
Smoke Detector	0	0.00
Fuses	0	0.00
Htg Sys Safety Check	117	169.74
Exhaust Ventilation	87	568.95
Health/Safety Repairs	0	0.00
Health/Safety Other	12	270.31
Consumables	19	46.80
Preservation	0	0.00
Roof Repairs	0	0.00
General Repairs	97	504.39
Evaluator Labor	1	283.94
Inspector Labor	1	258.74
Eval/Insp Labor	0	0.00
Meter Refrig (no action)	0	0.00
Meter Freezer (no action	1	0.00
Support	117	2679.68
Landlord Contr Misc	8	-559.28
Landlord Contr Furnace	0	0.00
Landlord Contr DHW	0	0.00
Client Contr Misc	0	0.00
Client Contr Refi	0	0.00
Warehouse	0	0.00
Unspecified	0	0.00

SCICAP
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Gas Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**45**	**43**	**28**	**13**	**1**	**0**			**222,519**	**16.7**		**23.1**		**103,218**	**119**	**10,882**	**4,979**	**358**	**0**
Shell & Htg. Sys.	43	41	28	13	1	0	26	39	175,662	8.8	10,048	14.1	21,251	31,299	117	10,603	4,796	358	0
Wall Insul.	31	31	21	8	1	0	18	31	23,309	3.40	3,951	5.78	8,692	12,643	33	2,941	1,007	69	0
Ceiling Insul.	39	39	26	11	1	0	24	39	71,670	4.37	4,979	5.18	7,800	12,779	32	2,894	1,245	96	0
Infil. Reduction	37	24	23	12	1	0	23	1	10,780	0.57	599	0.89	1,331	1,929	17	1,516	752	14	0
Found./Crawl. Insul	17	17	11	4	1	0	11	17	7,658	0.43	520	2.16	3,238	3,758	9	813	178	33	0
Bandjoist Insul.	22	22	15	6	1	0	-	22	1,970	0.00	0	0.12	189	189	2	160	71	7	0
Hi-Eff Htg Sys Repl	8	0	6	1	1	0	-	0	30,199	0.00	0	0.00	0	0	18	1,677	349	140	0
Std-Eff Htg Sys Repl	8	0	4	4	0	0	-	0	30,076	0.00	0	0.00	0	0	7	601	1,195	0	0
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Gas Pk-Day therms	Gas Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	17	5	8	4	0	0	8,075	0.0	0.1	4,809	1.6	279	183	0	0
Temp. Reduct.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
Pipe Insul.	8	3	4	1	0	0	71	0.00	0.00	590	0.1	35	10	0	0
LF Showerheac	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
Faucet Aerator	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
Std-Eff Wtr Htr Repl.	8	2	3	3	0	0	6,541	0.00	0.05	4,219	1.0	159	174	0	0
Hi-Eff Wtr Htr Repl.	1	0	1	0	0	0	1,462	0.00	0.00	0	0.5	85	0	0	0
Lighting	26	26					1,740	1.7	3.1	15,816	-	-	-	-	-
Capsylite (42W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (52W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (72W)	1	1					440	0.01	0.01	77	-	-	-	-	-
Capsylite, unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (5W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (7W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (9W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (11W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (15W)	21	21					633	0.70	1.29	6,659	-	-	-	-	-
CFL (18W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (20W)	21	21					444	0.59	1.09	5,608	-	-	-	-	-
CFL (23W)	4	4					86	0.11	0.21	1,072	-	-	-	-	-
CFL (25W)	11	11					137	0.25	0.47	2,401	-	-	-	-	-
CFL (30W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL, unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.0	0.0	0.0
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Refrigerator/Freezer	27	27					37,042	6.31	5.90	51,293	-	-	-	-	-
Refrigerator Removal	1	1					150	0.25	0.23	2,042	-	-	-	-	-
Refrigerator Exchange	23	23					29,776	4.92	4.60	39,982	-	-	-	-	-
Freezer Removal	0	0					0	0.00	0.00	0	-	-	-	-	-
Freezer Exchange	7	7					7,116	1.14	1.07	9,269	-	-	-	-	-

Measure	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk-Day therms	Gas Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**4944.87**	**0.294**		**0.331**		**2,400**	**4.233**	**389**	**383**	**358**	**-**
Shell & Htg. Sys.	4085.17	0.337	386	0.362	545	763	4.176	379	369	358	-
Wall Insul.	751.92	0.189	219	0.186	280	408	1.549	140	126	69	-
Ceiling Insul.	1837.70	0.182	207	0.133	200	328	1.228	111	113	96	-
Infil. Reduction	291.34	0.025	26	0.889	1,331	80	0.725	66	63	14	-
Found./Crawl. Insul	450.47	0.039	47	0.127	190	221	0.825	74	45	33	-
Bandjoist Insul.	89.55	-	-	0.006	9	9	0.118	11	12	7	-
Hi-Eff Htg Sys Repl	3774.84	-	-	-	-	-	3.065	280	349	140	-
Std-Eff Htg Sys Repl	3759.55	-	-	-	-	-	1.644	150	299	-	-
Electric Htg Sys Repl	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0.00	-	-	-	-	-	-	-	-	-	-

Measure	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Gas Pk-Day therms	Gas Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	474.99	0.000	0.011	962	0.199	35	46	-	-
Temp. Reduct.	0.00	-	-	-	-	-	-	-	-
WH Wrap	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	8.93	0.000	0.000	197	0.025	9	10	-	-
LF Showerheac	0.00	-	-	-	-	-	-	-	-
Faucet Aerator	0.00	-	-	-	-	-	-	-	-
Std-Eff Wtr Htr Repl.	817.62	0.000	0.026	2,110	0.325	53	58	-	-
Hi-Eff Wtr Htr Repl.	1462.40	-	-	-	0.519	85	-	-	-
Lighting	66.92	0.064	0.118	608	-	-	-	-	-
Capsylite (42W)	0.00	-	-	-	-	-	-	-	-
Capsylite (52W)	0.00	-	-	-	-	-	-	-	-
Capsylite (72W)	440.00	0.008	0.015	77	-	-	-	-	-
Capsylite, unknown	0.00	-	-	-	-	-	-	-	-
CFL (5W)	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0.00	-	-	-	-	-	-	-	-
CFL (15W)	30.15	0.033	0.062	317	-	-	-	-	-
CFL (18W)	0.00	-	-	-	-	-	-	-	-
CFL (20W)	21.16	0.028	0.052	267	-	-	-	-	-
CFL (23W)	21.47	0.028	0.052	268	-	-	-	-	-
CFL (25W)	12.41	0.023	0.042	218	-	-	-	-	-
CFL (30W)	0.00	-	-	-	-	-	-	-	-
CFL, unknown	0.00	-	-	-	-	-	-	-	-
Waterbed Mattress Pad	0.00	-	-	-	-	-	-	-	-
King	0.00	-	-	-	-	-	-	-	-
Queen	0.00	-	-	-	-	-	-	-	-
Double	0.00	-	-	-	-	-	-	-	-
Single	0.00	-	-	-	-	-	-	-	-
Unknown	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	1371.93	0.234	0.218	1,900					
Refrigerator Removal	150.00	0.251	0.235	2,042	-	-	-	-	-
Refrigerator Exchange	1294.61	0.214	0.200	1,738	-	-	-	-	-
Freezer Removal	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	1016.57	0.163	0.152	1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 48 Total Households with Spending and/or Energy Impacts:

Total		**164,062**	
Unspecified Insul	35	6,627	189.34
Duct Insulation	0	0	0.00
Duct Sealing	12	1,286	107.16
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	21	2,310	110.00
Htg. Sys./WH Other	11	5,623	511.15
Space Heater Repl	3	4,973	1657.76
Air Conditioning Work	0	0	0.00
Water Heater Repair	5	1,332	266.30
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	13	1,206	92.74
Smoke Detector	7	100	14.27
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	21	2,170	103.34
Health/Safety Repairs	0	0	0.00
Health/Safety Other	3	466	155.19
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	35	20,746	592.75
Evaluator Labor	1	219	218.60
Inspector Labor	1	66	65.58
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	46	117,540	2555.21
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	1	(600)	-600.00

Total Reported Materials, Labor, and Support Costs **386,581**

Grand Total of Expenditures **386,581**

CASEI
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings / Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**82**	**82**	**72**	**8**	**0**	**0**			**627,824**	**34.8**		**45.5**		**171,439**	**716**	**63,920**	**10,267**	**0**	**0**	**7656.39**	**0.236**		**0.295**		**2,091**	**9.942**	**888**	**1283**	**-**	**-**
Shell & Htg. Sys.	81	81	72	8	0	0	74	81	570,615	23.7	27,186	32.3	48,237	75,423	710	62,381	9,995	0	0	7044.63	0.321	367	0.399	596	931	9.857	866	1249	-	-
Wall Insul.	68	68	60	8	0	0	62	68	106,207	11.30	12,885	6.05	8,929	21,813	227	19,981	2,920	0	0	1561.86	0.182	208	0.089	131	321	3.788	333	365	-	-
Ceiling Insul.	80	80	71	8	0	0	73	80	107,317	11.78	13,518	11.42	17,091	30,609	89	7,867	1,463	0	0	1341.46	0.161	185	0.143	214	383	1.260	111	183	-	-
Infil. Reduction	81	74	71	8	0	0	74	1	174,429	0.21	231	13.47	20,233	20,464	197	17,291	2,261	0	0	2153.45	0.003	3	13.472	20,233	277	2.772	244	283	-	-
Found./Crawl. Insul	28	28	24	4	0	0	26	28	12,488	0.47	552	1.33	1,959	2,511	36	3,184	2,163	0	0	445.98	0.018	21	0.047	70	90	1.510	133	541	-	-
Bandjoist Insul.	4	4	2	2	0	0	-	4	484	0.00	0	0.02	26	26	0	32	38	0	0	120.95	-	-	0.004	6	6	0.185	16	19	-	-
Hi-Eff Htg Sys Repl	36	0	33	3	0	0	-	0	145,509	0.00	0	0.00	0	0	147	12,948	1,151	0	0	4041.91	-	-	-	-	-	4.465	392	384	-	-
Std-Eff Htg Sys Repl	4	0	4	0	0	0	-	0	24,182	0.00	0	0.00	0	0	12	1,077	0	0	0	6045.50	-	-	-	-	-	3.058	269	-	-	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other																								
Water Heating	19	1	15	3	0	0	40	2	32	6	0	0	13,097	0.0		0.1	2,110	6.1	1,540	271	0	0	689.34	0.000		0.052	2,110	0.406	103	90	-	-
Temp. Reduct.	0	0	0	0	0	0							0	0.00		0.00	0	0.0	0	0	0	0	0.00	-		-	-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0							0	0.00		0.00	0	0.0	0	0	0	0	0.00	-		-	-	-	-	-	-	-
Pipe Insul.	0	0	0	0	0	0							0	0.00		0.00	0	0.0	0	0	0	0	0.00	-		-	-	-	-	-	-	-
LF Showerheac	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0	0	0	0.00	-		-	-	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0	0	0	0.00	-		-	-	-	-	-	-	-
Std-Eff Wtr Htr Repl.	13	1	9	3	0	0	26	2	18	6	0	0	7,417	0.00		0.05	2,110	2.0	745	271	0	0	570.53	0.000		0.052	2,110	0.226	83	90	-	-
Hi-Eff Wtr Htr Repl.	6	0	6	0	0	0	14	0	14	0	0	0	5,680	0.00		0.00	0	4.1	795	0	0	0	946.74	-		-	-	0.677	132	-	-	-
Lighting	72	72					756	756					3,264	3.1		5.8	29,757	-	-	-	-	-	45.33	0.043		0.080	413	-	-	-	-	-
Capsylite (42W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
Capsylite (52W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
Capsylite (72W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
Capsylite, unknown	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
CFL (5W)	10	10					94	94					436	0.20		0.36	1,878	-	-	-	-	-	43.64	0.020		0.036	188	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
CFL (11W)	38	38					262	262					1,102	0.80		1.47	7,600	-	-	-	-	-	28.98	0.021		0.039	200	-	-	-	-	-
CFL (15W)	44	44					314	314					1,285	1.48		2.74	14,127	-	-	-	-	-	29.21	0.034		0.062	321	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
CFL (20W)	8	8					24	24					160	0.14		0.26	1,320	-	-	-	-	-	19.98	0.017		0.032	165	-	-	-	-	-
CFL (23W)	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
CFL (25W)	24	24					58	58					245	0.46		0.84	4,352	-	-	-	-	-	10.20	0.019		0.035	181	-	-	-	-	-
CFL (30W)	1	1					4	4					36	0.05		0.09	480	-	-	-	-	-	35.96	0.050		0.093	480	-	-	-	-	-
CFL, unknown	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.0	0.0	0.0	0.00	-		-	-	-	-	-	-	-
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.0	0.0	0.0	0.00	-		-	-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.0	0.0	0.0	0.00	-		-	-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.0	0.0	0.0	0.00	-		-	-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.0	0.0	0.0	0.00	-		-	-	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.0	0.0	0.0	0.00	-		-	-	-	-	-	-	-
Refrigerator/Freezer	36	36					82	82					40.848	7.89		7.38	64,150	-	-	-	-	-	1134.66	0.219		0.205	1,782					
Refrigerator Remova	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
Refrigerator Exchange	27	27					54	54					32,194	5.77		5.40	46,936	-	-	-	-	-	1192.36	0.214		0.200	1,738	-	-	-	-	-
Freezer Remova	0	0					0	0					0	0.00		0.00	0	-	-	-	-	-	0.00	-		-	-	-	-	-	-	-
Freezer Exchange	13	13					28	28					8,654	2.12		1.98	17,215	-	-	-	-	-	665.70	0.163		0.152	1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 82 Total Households with Spending and/or Energy Impacts:

Total		**325,460**	
Unspecified Insul	28	850	30.35
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	33	4,890	148.18
Htg. Sys./WH Other	12	7,802	650.18
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	2	325	162.38
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	57	14,003	245.66
Consumables	65	1,427	21.96
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	79	21,471	271.79
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	82	280,442	3420.03
Landlord Contr Misc	6	(5,750)	-958.33
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	0	0	0.00

Total Reported Materials, Labor, and Support Costs **953,284**

Grand Total of Expenditures **953,284**

SIEDA
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**121**	**121**	**99**	**19**	**1**	**0**			**645,988**	**52.0**		**85.6**		**335,356**	**496**	**46,413**	**5,614**	**216**	**0**
Shell & Htg. Sys.	121	119	94	17	1	0	113	114	533,586	33.4	38,633	61.2	91,325	129,959	480	42,489	5,186	216	0
Wall Insul.	72	72	61	5	1	0	68	71	81,070	12.42	14,362	19.89	29,626	43,988	147	13,045	1,035	95	0
Ceiling Insul.	98	98	75	15	1	0	93	98	85,637	16.69	19,367	20.90	31,312	50,678	61	5,439	1,312	49	0
Infil. Reduction	121	113	94	17	1	0	113	9	71,532	2.78	3,165	10.20	15,240	18,405	86	7,581	1,133	63	0
Found./Crawl. Insul	44	44	37	2	0	0	41	44	24,545	1.46	1,739	8.69	12,919	14,658	38	3,363	103	0	0
Bandjoist Insul.	72	72	56	10	1	0	-	72	12,124	0.00	0	1.50	2,229	2,229	7	587	120	8	0
Hi-Eff Htg Sys Repl	24	0	24	0	0	0	-	0	123,116	0.00	0	0.00	0	0	85	7,526	0	0	0
Std-Eff Htg Sys Repl	28	0	22	6	0	0	-	0	122,858	0.00	0	0.00	0	0	52	4,648	1,298	0	0
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	8,704	0.00	0	0.00	0	0	0	0	0	0	0
Other Htg Sys Repl	2	0	1	1	0	0	-	0	4,000	0.00	0	0.00	0	0	3	300	186	0	0

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Spending on Materials & Labor ($)	Estimated First-Year Savings: Summer kW	Winter kW	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	116	31	77	8	0	0	33,322	0.0	0.9	43,855	16.5	3,970	428	0	0
Temp. Reduct.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
WH Wrap	8	0	8	0	0	0	249	0.00	0.00	0	0.4	148	0	0	0
Pipe Insul.	96	23	67	6	0	0	1,080	0.00	0.01	4,524	1.7	589	58	0	0
LF Showerheac	50	13	33	4	0	0	755	0.00	0.32	14,087	4.4	1,346	163	0	0
Faucet Aerator	86	19	60	7	0	0	588	0.00	0.05	2,039	1.1	326	35	0	0
Std-Eff Wtr Htr Repl.	26	3	20	3	0	0	21,702	0.00	0.10	6,329	5.8	1,055	173	0	0
Hi-Eff Wtr Htr Repl.	11	5	6	0	0	0	8,948	0.00	0.42	16,877	3.1	506	0	0	0
Lighting	105	105					7,310	6.0	11.2	57,534	-	-	-	-	-
Capsylite (42W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (52W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (72W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite, unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (5W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (7W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (9W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (11W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (15W)	54	54					3,858	2.62	4.84	24,925	-	-	-	-	-
CFL (18W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (20W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (23W)	61	61					2,880	2.84	5.25	27,056	-	-	-	-	-
CFL (25W)	11	11					572	0.58	1.08	5,553	-	-	-	-	-
CFL (30W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL, unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
Waterbed Mattress Pad	1	1	1	0	0	0	28	0.00	0.58	1,533	-0.3	-46	0.0	0.0	0.0
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Unknown	1	1	1	0	0	0	28	0.00	0.58	1,533	-0.3	-46	0.0	0.0	0.0
Refrigerator/Freezer	56	56					71,742	12.60	11.78	102,476	-	-	-	-	-
Refrigerator Remova	0	0					0	0.00	0.00	0	-	-	-	-	-
Refrigerator Exchange	46	46					55,738	9.84	9.20	79,964	-	-	-	-	-
Freezer Remova	0	0					0	0.00	0.00	0	-	-	-	-	-
Freezer Exchange	17	17					16,004	2.77	2.59	22,511	-	-	-	-	-

Measure	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**5338.75**	**0.209**		**0.342**		**2,772**	**5.010**	**469**	**295**	**216**	**-**
Shell & Htg. Sys.	4409.80	0.295	342	0.537	801	1,092	5.104	452	305	216	-
Wall Insul.	1125.97	0.183	211	0.280	417	611	2.413	214	207	95	-
Ceiling Insul.	873.85	0.179	208	0.213	320	517	0.819	73	87	49	-
Infil. Reduction	591.18	0.025	28	1.133	1,693	163	0.910	81	67	63	-
Found./Crawl. Insul	557.84	0.036	42	0.197	294	333	1.030	91	51	-	-
Bandjoist Insul.	168.38	-	-	0.021	31	31	0.118	10	12	8	-
Hi-Eff Htg Sys Repl	5129.83	-	-	-	-	-	3.541	314	-	-	-
Std-Eff Htg Sys Repl	4387.79	-	-	-	-	-	2.382	211	216	-	-
Electric Htg Sys Repl	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	2000.00	-	-	-	-	-	3.488	300	186	-	-

Measure	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	287.26	0.000	0.029	1,415	0.214	52	54	-	-
Temp. Reduct.	0.00	-	-	-	-	-	-	-	-
WH Wrap	31.14	-	-	-	0.053	18	-	-	-
Pipe Insul.	11.25	0.000	0.000	197	0.025	9	10	-	-
LF Showerheac	15.11	0.000	0.025	1,084	0.133	41	41	-	-
Faucet Aerator	6.83	0.000	0.002	107	0.018	5	5	-	-
Std-Eff Wtr Htr Repl.	834.69	0.000	0.035	2,110	0.291	53	58	-	-
Hi-Eff Wtr Htr Repl.	813.45	0.000	0.083	3,375	0.517	84	-	-	-
Lighting	69.62	0.058	0.106	548	-	-	-	-	-
Capsylite (42W)	0.00	-	-	-	-	-	-	-	-
Capsylite (52W)	0.00	-	-	-	-	-	-	-	-
Capsylite (72W)	0.00	-	-	-	-	-	-	-	-
Capsylite, unknown	0.00	-	-	-	-	-	-	-	-
CFL (5W)	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0.00	-	-	-	-	-	-	-	-
CFL (15W)	71.44	0.048	0.090	462	-	-	-	-	-
CFL (18W)	0.00	-	-	-	-	-	-	-	-
CFL (20W)	0.00	-	-	-	-	-	-	-	-
CFL (23W)	47.21	0.047	0.086	444	-	-	-	-	-
CFL (25W)	52.04	0.053	0.098	505	-	-	-	-	-
CFL (30W)	0.00	-	-	-	-	-	-	-	-
CFL, unknown	0.00	-	-	-	-	-	-	-	-
Waterbed Mattress Pad	28.00	0.000	0.581	1,533	-0.279	-46	-	-	-
King	0.00	-	-	-	-	-	-	-	-
Queen	0.00	-	-	-	-	-	-	-	-
Double	0.00	-	-	-	-	-	-	-	-
Single	0.00	-	-	-	-	-	-	-	-
Unknown	28.00	0.000	0.581	1,533	-0.279	-46	-	-	-
Refrigerator/Freezer	1281.11	0.225	0.210	1,830					
Refrigerator Remova	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	1211.70	0.214	0.200	1,738	-	-	-	-	-
Freezer Remova	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	941.41	0.163	0.152	1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 121 Total Households with Spending and/or Energy Impacts:

Total		**386,407**	
Unspecified Insul	82	12,959	158.03
Duct Insulation	0	0	0.00
Duct Sealing	90	4,725	52.50
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	62	12,852	207.29
Htg. Sys./WH Other	90	57,196	635.51
Space Heater Repl	4	10,728	2682.00
Air Conditioning Work	10	1,724	172.40
Water Heater Repair	22	2,834	128.82
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	36	2,762	76.73
Smoke Detector	1	12	11.90
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	50	4,798	95.96
Health/Safety Repairs	0	0	0.00
Health/Safety Other	41	6,554	159.86
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	118	89,646	759.71
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	110	179,618	1632.89
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	0	0	0.00

Total Reported Materials, Labor, and Support Costs **1,032,396**

Grand Total of Expenditures **1,032,396**

Upper Des Moines
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Gas Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Gas Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**130**	**130**	**123**	**6**	**1**	**0**			**951,577**	**51.2**		**40.1**		**228,734**	**800**	**80,241**	**3,827**	**410**	**0**	**7319.83**	**0.233**		**0.157**		**1,759**	**6.502**	**652**	**638**	**410**	**-**
Shell & Htg. Sys.	129	129	122	6	1	0	93	129	815,155	32.3	31,189	14.5	23,736	54,925	781	76,441	3,654	410	0	6319.03	0.347	335	0.112	184	426	6.403	627	609	410	-
Wall Insul.	106	106	101	4	1	0	72	106	241,645	15.15	14,514	9.13	14,961	29,475	292	28,587	1,231	230	0	2279.67	0.210	202	0.086	141	278	2.894	283	308	230	-
Ceiling Insul.	126	126	119	6	1	0	90	126	217,570	14.84	14,455	4.11	6,747	21,202	135	13,194	644	97	0	1726.74	0.165	161	0.033	54	168	1.132	111	107	97	-
Infil. Reduction	127	92	118	6	1	0	92	0	27,059	2.12	2,077	0.00	0	2,077	115	11,268	647	72	0	213.06	0.023	23	-	-	23	0.975	95	108	72	-
Found./Crawl. Insul	46	46	43	3	0	0	29	46	21,713	0.15	143	1.02	1,682	1,825	32	3,103	173	0	0	472.01	0.005	5	0.022	37	40	0.736	72	58	-	-
Bandjoist Insul.	43	43	39	3	1	0	-	43	3,859	0.00	0	0.21	346	346	6	581	49	12	0	89.74	-	-	0.005	8	8	0.152	15	16	12	-
Hi-Eff Htg Sys Repl	38	0	36	2	0	0	-	0	160,862	0.00	0	0.00	0	0	112	11,016	645	0	0	4233.20	-	-	-	-	-	3.120	306	322	-	-
Std-Eff Htg Sys Repl	36	0	35	1	0	0	-	0	142,449	0.00	0	0.00	0	0	89	8,692	265	0	0	3956.91	-	-	-	-	-	2.546	248	265	-	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other																								
Water Heating	70	7	61	2	0	0	296	18	266	12	0	0	43,834	0.0		0.1		7,747	18.6	3,800	172	0	0	626.20	0.000		0.017		1,107	0.305	62	86	-	-
Temp. Reduct.	1	0	1	0	0	0							0	0.00		0.00		0	0.0	12	0	0	0	0.00	-		-		-	0.036	12	-	-	-
WH Wrap	0	0	0	0	0	0							0	0.00		0.00		0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-
Pipe Insul.	58	5	51	2	0	0							696	0.00		0.00		984	1.4	498	21	0	0	12.00	0.000		0.000		197	0.028	10	11	-	-
LF Showerheac	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-
Faucet Aerator	55	4	49	2	0	0	198	12	178	8	0	0	495	0.00		0.01		434	1.1	337	23	0	0	9.00	0.000		0.002		109	0.022	7	12	-	-
Std-Eff Wtr Htr Repl.	17	3	12	2	0	0	34	6	24	4	0	0	14,392	0.00		0.10		6,329	4.0	703	128	0	0	846.61	0.000		0.035		2,110	0.329	59	64	-	-
Hi-Eff Wtr Htr Repl.	24	0	24	0	0	0	64	0	64	0	0	0	28,251	0.00		0.00		0	12.1	2,250	0	0	0	1177.12	-		-		-	0.503	94	-	-	-
Lighting	120	120					1,290	1,290					22,134	8.5		15.7		80,882	-	-	-	-	-	184.45	0.071		0.131		674	-	-	-	-	-
Capsylite (42W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite (52W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite (72W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite, unknown	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (15W)	52	52					520	520					8,840	2.46		4.54		23,396	-	-	-	-	-	170.00	0.047		0.087		450	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (20W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (23W)	3	3					36	36					612	0.25		0.47		2,411	-	-	-	-	-	204.00	0.084		0.156		804	-	-	-	-	-
CFL (25W)	65	65					734	734					12,682	5.78		10.68		55,076	-	-	-	-	-	195.11	0.089		0.164		847	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL, unknown	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Refrigerator/Freezer	49	49					114	114					70,454	10.48		9.80		85,179	-	-	-	-	-	1437.84	0.214		0.200		1,738					
Refrigerator Remova	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Refrigerator Exchange	49	49					114	114					70,454	10.48		9.80		85,179	-	-	-	-	-	1437.84	0.214		0.200		1,738	-	-	-	-	-
Freezer Remova	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Freezer Exchange	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 131 Total Households with Spending and/or Energy Impacts:

Total		**372,767**	
Unspecified Insul	123	22,211	180.58
Duct Insulation	0	0	0.00
Duct Sealing	66	2,083	31.56
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	24	3,442	143.42
Htg. Sys./WH Other	25	13,995	559.81
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	11	3,539	321.74
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	21	3,241	154.33
Smoke Detector	1	33	33.02
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	49	9,369	191.19
Health/Safety Repairs	0	0	0.00
Health/Safety Other	4	264	66.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	110	44,384	403.49
Evaluator Labor	2	330	165.04
Inspector Labor	2	170	85.17
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	83	270,530	3259.40
Landlord Contr Misc	1	(1,000)	-1000.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	4	176	44.00

Total Reported Materials, Labor, and Support Costs **1,324,345**

Grand Total of Expenditures **1,324,345**

West Central
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**165**	**165**	**153**	**11**	**2**	**0**			**856,160**	**62.5**		**56.5**		**264,190**	**746**	**71,830**	**4,306**	**563**	**0**	**5188.85**	**0.234**		**0.208**		**1,601**	**4.877**	**469**	**391**	**282**	-
Shell & Htg. Sys.	163	163	149	10	2	0	154	159	763,510	47.0	51,327	39.1	60,346	111,673	728	66,884	4,187	563	0	4684.11	0.305	333	0.246	380	685	4.885	449	419	282	-
Wall Insul.	116	116	108	5	2	0	109	116	134,553	17.37	19,103	19.17	29,574	48,677	193	17,687	939	192	0	1159.94	0.159	175	0.165	255	420	1.783	164	188	96	-
Ceiling Insul.	148	148	135	9	2	0	139	148	171,624	26.66	28,919	16.49	25,442	54,361	101	9,319	773	98	0	1159.62	0.192	208	0.111	172	367	0.751	69	86	49	-
Infil. Reduction	160	151	146	10	2	0	151	2	89,348	3.75	4,059	1.40	2,163	6,221	168	15,502	996	131	0	558.43	0.025	27	0.700	1,081	41	1.152	106	100	66	-
Found./Crawl. Insul	61	61	56	5	0	0	57	61	53,847	-0.79	(754)	1.86	2,861	2,108	51	4,688	298	0	0	882.74	-0.014	(13)	0.031	47	35	0.912	84	60	-	-
Bandjoist Insul.	47	47	42	5	0	0	-	47	7,040	0.00	0	0.20	306	306	5	476	64	0	0	149.78	-	-	0.004	7	7	0.124	11	13	-	-
Hi-Eff Htg Sys Repl	23	0	23	0	0	0	-	0	102,918	0.00	0	0.00	0	0	74	6,689	0	0	0	4474.69	-	-	-	-	-	3.201	291	-	-	-
Std-Eff Htg Sys Repl	62	0	57	4	1	0	-	0	204,180	0.00	0	0.00	0	0	136	12,525	1,117	142	0	3293.22	-	-	-	-	-	2.383	220	279	142	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other							Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	156	28	126	2	0	0	690	132	548	10	0	0	22,066	0.0	0.4	22,997	18.3	4,945	119	0	0	141.45	0.000	0.016	821	0.145	39	60	-	-
Temp. Reduct.	2	0	2	0	0	0							0	0.00	0.00	0	0.1	51	0	0	0	0.00	-	-	-	0.073	25	-	-	-
WH Wrap	9	1	8	0	0	0							278	0.00	0.00	481	0.5	158	0	0	0	30.89	0.000	0.001	481	0.057	20	-	-	-
Pipe Insul.	114	19	93	2	0	0							1,283	0.00	0.01	3,737	2.5	874	21	0	0	11.25	0.000	0.000	197	0.027	9	10	-	-
LF Showerheac	59	10	48	1	0	0	128	24	100	4	0	0	887	0.00	0.29	12,839	6.7	2,074	83	0	0	15.03	0.000	0.029	1,284	0.140	43	83	-	-
Faucet Aerator	131	25	104	2	0	0	520	108	406	6	0	0	1,190	0.00	0.13	5,939	2.1	637	15	0	0	9.08	0.000	0.005	238	0.020	6	8	-	-
Std-Eff Wtr Htr Repl.	14	0	14	0	0	0	28	0	28	0	0	0	12,940	0.00	0.00	0	4.1	790	0	0	0	924.29	-	-	-	0.296	56	-	-	-
Hi-Eff Wtr Htr Repl.	4	0	4	0	0	0	14	0	14	0	0	0	5,488	0.00	0.00	0	2.2	361	0	0	0	1372.00	-	-	-	0.553	90	-	-	-
Lighting	85	85					432	432					4,559	2.7	5.0	25,557	-	-	-	-	-	53.63	0.032	0.058	301	-	-	-	-	-
Capsylite (42W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Capsylite (52W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Capsylite (72W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Capsylite, unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (5W)	2	2					18	18					180	0.04	0.07	360	-	-	-	-	-	90.00	0.019	0.035	180	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	2	2					4	4					40	0.01	0.01	64	-	-	-	-	-	20.00	0.003	0.006	32	-	-	-	-	-
CFL (11W)	5	5					24	24					267	0.07	0.14	696	-	-	-	-	-	53.46	0.015	0.027	139	-	-	-	-	-
CFL (15W)	43	43					190	190					1,900	0.90	1.66	8,548	-	-	-	-	-	44.19	0.021	0.039	199	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (23W)	36	36					110	110					1,114	0.77	1.43	7,367	-	-	-	-	-	30.94	0.021	0.040	205	-	-	-	-	-
CFL (25W)	13	13					40	40					400	0.32	0.58	3,001	-	-	-	-	-	30.77	0.024	0.045	231	-	-	-	-	-
CFL (30W)	17	17					46	46					658	0.58	1.07	5,521	-	-	-	-	-	38.68	0.034	0.063	325	-	-	-	-	-
CFL, unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	54	54					132	132					66,026	12.79	11.96	103,963	-	-	-	-	-	1222.70	0.237	0.221	1,925					
Refrigerator Remova	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	40	40					80	80					47,251	8.55	8.00	69,534	-	-	-	-	-	1181.27	0.214	0.200	1,738	-	-	-	-	-
Freezer Remova	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	26	26					52	52					18,775	4.23	3.96	34,429	-	-	-	-	-	722.11	0.163	0.152	1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 165 Total Households with Spending and/or Energy Impacts:

Total		**642,760**	
Unspecified Insul	160	35,973	224.83
Duct Insulation	0	0	0.00
Duct Sealing	140	10,084	72.03
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	119	11,900	100.00
Htg. Sys./WH Other	101	51,292	507.84
Space Heater Repl	2	5,450	2725.00
Air Conditioning Work	51	4,748	93.10
Water Heater Repair	31	9,006	290.50
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	23	1,341	58.29
Smoke Detector	14	839	59.92
Fuses	4	264	66.00
Htg Sys Safety Check	142	11,280	79.43
Exhaust Ventilatior	85	12,743	149.92
Health/Safety Repairs	0	0	0.00
Health/Safety Other	29	2,832	97.65
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	159	145,781	916.86
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	140	340,683	2433.45
Landlord Contr Misc	3	(1,455)	-485.01
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	0	0	0.00

Total Reported Materials, Labor, and Support Costs **1,498,920**

Grand Total of Expenditures **1,498,920**

CAA Siouxland
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**66**	**66**	**61**	**5**	**0**	**0**			**452,479**	**37.3**		**31.6**		**188,597**	**550**	**52,545**	**5,039**	**0**	**0**
Shell & Htg. Sys.	66	66	60	5	0	0	60	63	389,385	22.2	22,950	11.2	17,536	40,486	543	50,501	4,912	0	0
Wall Insul.	45	45	42	3	0	0	40	45	74,476	10.38	10,926	3.75	5,833	16,759	169	15,700	851	0	0
Ceiling Insul.	61	61	55	5	0	0	55	61	70,504	9.14	9,373	4.62	7,214	16,588	71	6,597	549	0	0
Infil. Reduction	65	59	59	5	0	0	59	1	25,836	1.19	1,240	0.23	354	1,594	111	10,306	1,031	0	0
Found./Crawl. Insul	18	18	14	3	0	0	17	18	16,456	1.44	1,411	2.55	3,991	5,402	21	1,912	458	0	0
Bandjoist Insul.	30	30	30	0	0	0	-	30	6,143	0.00	0	0.09	143	143	4	395	0	0	0
Hi-Eff Htg Sys Repl	36	0	32	4	0	0	-	0	195,969	0.00	0	0.00	0	0	167	15,591	2,023	0	0
Std-Eff Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Winter kW	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	58	10	46	2	0	0	4,597	0.0	0.2	15,751	6.7	2,044	127	0	0
Temp. Reduct.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
WH Wrap	26	10	16	0	0	0	842	0.00	0.01	4,811	1.0	360	0	0	0
Pipe Insul.	54	10	43	1	0	0	562	0.00	0.00	1,967	1.3	460	12	0	0
LF Showerheac	23	4	17	2	0	0	293	0.00	0.20	8,973	3.6	1,095	45	0	0
Faucet Aerator	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
Std-Eff Wtr Htr Repl.	3	0	2	1	0	0	2,900	0.00	0.00	0	0.8	128	70	0	0
Hi-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
Lighting	60	60					9,306	6.5	12.0	62,013	-	-	-	-	-
Capsylite (42W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (52W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite (72W)	0	0					0	0.00	0.00	0	-	-	-	-	-
Capsylite, unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (5W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (7W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (9W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (11W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (15W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (18W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (20W)	46	46					3,310	1.89	3.50	18,034	-	-	-	-	-
CFL (23W)	53	53					5,086	3.81	7.04	36,297	-	-	-	-	-
CFL (25W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (30W)	20	20					911	0.81	1.49	7,682	-	-	-	-	-
CFL, unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0
Refrigerator/Freezer	34	34					49,190	8.65	8.09	70,347	-	-	-	-	-
Refrigerator Remova	1	1					20	0.25	0.23	2,042	-	-	-	-	-
Refrigerator Exchange	24	24					36,544	5.13	4.80	41,720	-	-	-	-	-
Freezer Remova	1	1					20	0.18	0.16	1,425	-	-	-	-	-
Freezer Exchange	18	18					12,606	3.09	2.89	25,160	-	-	-	-	-

Average Estimated First Year Measure Cost and Savings Average per Treated Household

Measure	Spending on Materials & Labor ($)	Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**6855.74**	**0.287**		**0.237**		**2,858**	**9.017**	**861**	**1008**	**-**	**-**
Shell & Htg. Sys.	5899.77	0.369	383	0.178	278	613	9.055	842	982	-	-
Wall Insul.	1655.03	0.259	273	0.083	130	372	4.024	374	284	-	-
Ceiling Insul.	1155.80	0.166	170	0.076	118	272	1.292	120	110	-	-
Infil. Reduction	397.48	0.020	21	0.226	354	27	1.880	175	206	-	-
Found./Crawl. Insul	914.24	0.085	83	0.142	222	300	1.473	137	153	-	-
Bandjoist Insul.	204.77	-	-	0.003	5	5	0.142	13	-	-	-
Hi-Eff Htg Sys Repl	5443.58	-	-	-	-	-	5.232	487	506	-	-
Std-Eff Htg Sys Repl	0.00	-	-	-	-	-	-	-	-	-	-
Electric Htg Sys Repl	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0.00	-	-	-	-	-	-	-	-	-	-

Measure	Spending on Materials & Labor ($)	Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	79.26	0.000		0.022		1,575	0.146	44	63	-	-
Temp. Reduct.	0.00	-		-		-	-	-	-	-	-
WH Wrap	32.38	0.000		0.001		481	0.065	23	-	-	-
Pipe Insul.	10.41	0.000		0.000		197	0.031	11	12	-	-
LF Showerheac	12.73	0.000		0.051		2,243	0.209	64	23	-	-
Faucet Aerator	0.00	-		-		-	-	-	-	-	-
Std-Eff Wtr Htr Repl.	966.69	-		-		-	0.394	64	70	-	-
Hi-Eff Wtr Htr Repl.	0.00	-		-		-	-	-	-	-	-
Lighting	155.11	0.109		0.201		1,034	-	-	-	-	-
Capsylite (42W)	0.00	-		-		-	-	-	-	-	-
Capsylite (52W)	0.00	-		-		-	-	-	-	-	-
Capsylite (72W)	0.00	-		-		-	-	-	-	-	-
Capsylite, unknown	0.00	-		-		-	-	-	-	-	-
CFL (5W)	0.00	-		-		-	-	-	-	-	-
CFL (7W)	0.00	-		-		-	-	-	-	-	-
CFL (9W)	0.00	-		-		-	-	-	-	-	-
CFL (11W)	0.00	-		-		-	-	-	-	-	-
CFL (15W)	0.00	-		-		-	-	-	-	-	-
CFL (18W)	0.00	-		-		-	-	-	-	-	-
CFL (20W)	71.95	0.041		0.076		392	-	-	-	-	-
CFL (23W)	95.95	0.072		0.133		685	-	-	-	-	-
CFL (25W)	0.00	-		-		-	-	-	-	-	-
CFL (30W)	45.55	0.040		0.075		384	-	-	-	-	-
CFL, unknown	0.00	-		-		-	-	-	-	-	-
Waterbed Mattress Pad	0.00	-		-		-	-	-	-	-	-
King	0.00	-		-		-	-	-	-	-	-
Queen	0.00	-		-		-	-	-	-	-	-
Double	0.00	-		-		-	-	-	-	-	-
Single	0.00	-		-		-	-	-	-	-	-
Unknown	0.00	-		-		-	-	-	-	-	-
Refrigerator/Freezer	1446.76	0.254		0.238		2,069					
Refrigerator Remova	20.00	0.251		0.235		2,042	-	-	-	-	-
Refrigerator Exchange	1522.67	0.214		0.200		1,738	-	-	-	-	-
Freezer Remova	20.00	0.175		0.164		1,425	-	-	-	-	-
Freezer Exchange	700.33	0.172		0.161		1,398	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 66 Total Households with Spending and/or Energy Impacts:

Total		**231,671**	
Unspecified Insul	39	10,117	259.42
Duct Insulation	0	0	0.00
Duct Sealing	42	3,933	93.64
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	28	4,550	162.50
Htg. Sys./WH Other	44	25,660	583.19
Space Heater Repl	1	4,746	4746.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	14	1,990	142.16
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	9	1,135	126.11
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	26	4,440	170.77
Health/Safety Repairs	0	0	0.00
Health/Safety Other	3	1,199	399.63
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	58	24,317	419.26
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	54	149,583	2770.06
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	0	0	0.00

Total Reported Materials, Labor, and Support Costs **684,150**

Grand Total of Expenditures **684,150**

Polk County
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL	**55**	**55**	**52**	**6**	**1**	**0**			**385,621**	**23.0**		**17.7**		**108,825**	**264**	**25,414**	**3,472**	**21**	**0**	**7011.30**	**0.261**		**0.197**		**1,979**	**5.072**	**489**	**579**	**21**	**-**
Shell & Htg. Sys.	55	55	48	6	1	0	52	54	321,251	13.1	14,813	6.2	9,513	24,326	253	23,054	3,423	21	0	5840.92	0.252	285	0.115	176	442	5.271	480	571	21	-
Wall Insul.	40	40	36	4	0	0	38	40	81,488	3.75	4,260	3.45	5,279	9,539	82	7,478	995	0	0	2037.20	0.099	112	0.086	132	238	2.273	208	249	-	-
Ceiling Insul.	48	48	43	5	0	0	45	48	49,992	7.44	8,385	1.45	2,205	10,590	36	3,239	266	0	0	1041.50	0.165	186	0.030	46	221	0.826	75	53	-	-
Infil. Reduction	54	51	45	6	0	0	51	0	19,941	1.74	1,957	0.00	0	1,957	36	3,314	697	0	0	369.28	0.034	38	-	-	38	0.810	74	116	-	-
Found./Crawl. Insul	30	30	26	3	1	0	29	30	25,226	0.17	212	1.19	1,809	2,021	25	2,279	495	21	0	840.87	0.006	7	0.040	60	67	0.964	88	165	21	-
Bandjoist Insul.	32	32	29	3	0	0	-	32	4,044	0.00	0	0.14	219	219	3	274	32	0	0	126.38	-	-	0.004	7	7	0.104	9	11	-	-
Hi-Eff Htg Sys Repl	13	0	13	0	0	0	-	0	52,452	0.00	0	0.00	0	0	35	3,171	0	0	0	4034.74	-	-	-	-	-	2.668	244	-	-	-
Std-Eff Htg Sys Repl	23	0	18	5	0	0	-	0	88,108	0.00	0	0.00	0	0	36	3,299	938	0	0	3830.78	-	-	-	-	-	2.025	183	188	-	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other																								
Water Heating	53	1	51	1	0	0	232	4	226	2	0	0	26,078	0.0		0.0		733	10.7	2,360	49	0	0	492.04	0.000		0.017		733	0.210	46	49	-	-
Temp. Reduct.	0	0	0	0	0	0							0	0.00		0.00		0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0							0	0.00		0.00		0	0.0	0	0	0	0	0.00	-		-		-	-	-	-	-	-
Pipe Insul.	19	0	19	0	0	0							798	0.00		0.00		0	0.4	141	0	0	0	42.00	-		-		-	0.021	7	-	-	-
LF Showerheac	17	0	17	0	0	0	34	0	34	0	0	0	234	0.00		0.00		0	2.4	736	0	0	0	13.76	-		-		-	0.141	43	-	-	-
Faucet Aerator	39	1	38	0	0	0	142	4	138	0	0	0	436	0.00		0.02		733	0.7	219	0	0	0	11.18	0.000		0.017		733	0.019	6	-	-	-
Std-Eff Wtr Htr Repl.	15	0	14	1	0	0	30	0	28	2	0	0	13,880	0.00		0.00		0	3.3	623	49	0	0	925.33	-		-		-	0.234	45	49	-	-
Hi-Eff Wtr Htr Repl.	9	0	9	0	0	0	26	0	26	0	0	0	10,730	0.00		0.00		0	3.9	641	0	0	0	1192.22	-		-		-	0.437	71	-	-	-
Lighting	35	35					420	420					4,200	2.4		4.5		23,092	-	-	-	-	-	120.00	0.069		0.128		660	-	-	-	-	-
Capsylite (42W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite (52W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite (72W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Capsylite, unknown	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (15W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (20W)	35	35					420	420					4,200	2.42		4.48		23,092	-	-	-	-	-	120.00	0.069		0.128		660	-	-	-	-	-
CFL (23W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
CFL, unknown	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.0	0.0	0.0	0.00	-		-		-	-	-	-	-	-
Refrigerator/Freezer	30	30					76	76					34,093	7.46		6.98		60,673	-	-	-	-	-	1136.43	0.249		0.233		2,022					
Refrigerator Remova	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Refrigerator Exchange	25	25					50	50					25,175	5.35		5.00		43,459	-	-	-	-	-	1006.99	0.214		0.200		1,738	-	-	-	-	-
Freezer Remova	0	0					0	0					0	0.00		0.00		0	-	-	-	-	-	0.00	-		-		-	-	-	-	-	-
Freezer Exchange	13	13					26	26					8,918	2.12		1.98		17,215	-	-	-	-	-	686.01	0.163		0.152		1,324	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 55 Total Households with Spending and/or Energy Impacts:

Total		**266,556**	
Unspecified Insul	50	16,565	331.30
Duct Insulation	0	0	0.00
Duct Sealing	35	5,512	157.49
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	9	1,790	198.89
Htg. Sys./WH Other	30	21,749	724.96
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	6	2,120	353.33
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	10	963	96.28
Smoke Detector	1	29	28.98
Fuses	0	0	0.00
Htg Sys Safety Check	34	2,880	84.71
Exhaust Ventilation	19	3,254	171.26
Health/Safety Repairs	0	0	0.00
Health/Safety Other	4	2,383	595.81
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	53	31,585	595.94
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	55	178,613	3247.50
Landlord Contr Misc	1	(886)	-886.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refi	0	0	0.00
Warehouse	0	0	0.00
Unspecified	0	0	0.00

Total Reported Materials, Labor, and Support Costs **652,178**

Grand Total of Expenditures **652,178**

6. DETAILED SPENDING AND IMPACT PROFILES BY AGENCY FOR UTILITY EXPENDITURES

This section provides tables of spending and impacts by agency for utility expenditures.

Note that the same considerations for reporting at the agency level hold for this set of tables as for the ones in the previous section (see the discussion at the beginning of the previous section.) See notes regarding waterbed mattress pad and water heater measure savings at the beginning of Section 4..

Community Opportunity
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**33**	**23**	**29**			**78,818**	**4.3**		**3.5**		**15,893**	**63**	**6,060**	**2388.42**	**0.102**		**0.072**		**691**	**2.189**	**209**
Shell & Htg. Sys.	33	23	28	22	29	74,638	3.4	4,063	2.3	3,711	7,774	63	5,867	2261.75	0.153	185	0.079	128	338	2.237	210
Wall Insul.	25	19	20	18	8	22,228	1.26	1,522	0.32	503	2,025	24	2,245	889.12	0.070	85	0.041	63	107	1.194	112
Ceiling Insul	32	22	27	20	9	24,510	2.05	2,476	1.85	2,996	5,472	15	1,361	765.94	0.103	124	0.205	333	249	0.538	50
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	6	4	4	4	1	1,421	0.05	65	0.01	19	84	2	205	236.78	0.013	16	0.013	19	21	0.549	51
Bandjoist Insul.	8	4	7	-	4	369	0.00	0	0.12	192	192	0	37	46.16	-	-	0.030	48	48	0.057	5
Hi-Eff Htg Sys Repl	11	0	11	-	0	26,110	0.00	0	0.00	0	0	22	2,018	2373.64	-	-	-	-	-	1.968	183
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms	Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms
Water Heating	22	1	21	1,029	0.0	0.0	98	0.8	193	46.78	0.000	0.000	98	0.040	9
Temp. Reduct.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	22	1	21	190	0.00	0.00	98	0.3	90	8.65	0.000	0.000	98	0.012	4
LF Showerhead	1	0	1	7	0.00	0.00	0	0.1	21	7.00	-	-	-	0.070	21
Faucet Aerator	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	2	0	2	832	0.00	0.00	0	0.5	82	416.00	-	-	-	0.251	41
Lighting	19	19		580	0.4	0.8	3,882	-	-	30.51	0.021	0.040	204	-	-
Capsylite (42W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (18W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (23W)	16	16		49	49	500	0.34	0.64	3,281	-	-	31.23	0.022	0.040	205	-	-
CFL (25W)	3	3		8	8	80	0.06	0.12	600	-	-	26.67	0.021	0.039	200	-	-
CFL (30W)	0	0		0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL, unknown	0	0		0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	5	5		5	5	2,571	0.51	0.48	4,139	-	-	514.20	0.102	0.095	828		
Refrigerator Removal	0	0		0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	4	4		4	4	2,157	0.43	0.40	3,477	-	-	539.25	0.107	0.100	869	-	-
Freezer Removal	0	0		0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	1	1		1	1	414	0.08	0.08	662	-	-	414.00	0.081	0.076	662	-	-

Costs for Measures Without Energy Impacts Installed in 33 Total Households with Spending and/or Energy Impacts:

Total		**10,742**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	23	10,742	467.06
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs **89,560**

Grand Total of Expenditures **89,560**

HACAP
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**131**	**119**	**110**			**209,334**	**14.1**		**18.1**		**111,347**	**138**	**13,161**	**1597.97**	**0.069**		**0.079**		**936**	**1.258**	**120**
Shell & Htg. Sys.	119	93	107	83	107	169,665	3.3	3,957	1.4	2,041	5,998	136	12,487	1425.76	0.040	48	0.013	19	64	1.271	117
Wall Insul.	70	57	63	50	16	55,724	1.57	1,898	0.68	1,032	2,931	58	5,342	796.06	0.031	38	0.042	65	51	0.922	85
Ceiling Insul	94	74	81	67	21	47,526	1.36	1,636	0.35	526	2,161	34	3,096	505.59	0.020	24	0.017	25	29	0.416	38
Infil. Reduction	1	0	1	0	0	47	0.00	0	0.00	0	0	0	7	46.94	-	-	-	-	-	0.071	7
Found./Crawl. Insul.	55	44	47	40	15	36,450	0.35	423	0.30	443	866	22	1,960	662.72	0.009	11	0.020	30	20	0.458	42
Bandjoist Insul.	39	12	39	-	12	3,546	0.00	0	0.03	40	40	2	182	90.91	-	-	0.002	3	3	0.051	5
Hi-Eff Htg Sys Repl	16	0	16	-	0	26,373	0.00	0	0.00	0	0	21	1,901	1648.31	-	-	-	-	-	1.283	119
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas					Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms
Water Heating	66	15	51	117	29	88	2,180	0.0	0.1	6,936	2.4	674	33.04	0.000	0.009	462	0.048	13
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	3	1	2				17	0.00	0.00	241	0.0	16	5.67	0.000	0.000	241	0.024	8
Pipe Insul.	37	6	31				240	0.00	0.00	590	0.3	121	6.49	0.000	0.000	98	0.011	4
LF Showerhead	37	8	29	40	9	31	287	0.00	0.12	5,204	1.2	374	7.76	0.000	0.015	651	0.042	13
Faucet Aerator	39	9	30	74	20	54	238	0.00	0.02	901	0.2	63	6.11	0.000	0.002	100	0.007	2
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	3	0	3	3	0	3	1,398	0.00	0.00	0	0.6	100	466.00	-	-	-	0.203	33
Lighting	108	108		1,162	1,162		14,104	6.7	12.4	63,888	-	-	130.59	0.062	0.115	592	-	-
Capsylite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	108	108		1,162	1,162		14,104	6.71	12.39	63,888	-	-	130.59	0.062	0.115	592	-	-
CFL (23W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	1	1	0	1	1	0	15	0.00	0.29	766	0.0	0	15.00	0.000	0.290	766	-	-
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	1	1	0	1	1	0	15	0.00	0.29	766	0.0	0	15.00	0.000	0.290	766	-	-
Refrigerator/Freezer	40	40		40	40		23,370	4.15	3.88	33,758	-	-	584.25	0.104	0.097	844		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	40	40		40	40		23,370	4.15	3.88	33,758	-	-	584.25	0.104	0.097	844	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 131 Total Households with Spending and/or Energy Impacts:

Total		**35,565**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	130	35,565	273.57
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs **244,898**

Grand Total of Expenditures **244,898**

TRAIN
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms
OVERALL	**133**	**105**	**128**			**214,079**	**23.2**		**10.4**		**75,002**	**261**	**26,444**	**1609.61**	**0.118**		**0.045**		**714**	**2.042**	**207**
Shell & Htg. Sys.	131	103	126	90	127	188,105	19.0	22,880	5.1	7,705	30,586	243	21,943	1435.91	0.211	254	0.040	61	297	1.929	174
Wall Insul.	93	75	89	65	70	92,557	7.59	9,157	2.78	4,226	13,384	142	12,771	995.24	0.117	141	0.040	60	178	1.590	143
Ceiling Insul	112	88	106	72	83	44,774	11.28	13,610	1.84	2,820	16,430	53	4,770	399.77	0.157	189	0.022	34	187	0.499	45
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	40	24	39	23	23	13,128	0.09	113	0.28	425	538	20	1,764	328.21	0.004	5	0.012	18	22	0.501	45
Bandjoist Insul.	77	59	77	-	59	7,708	0.00	0	0.15	233	233	7	612	100.11	-	-	0.003	4	4	0.088	8
Hi-Eff Htg Sys Repl	15	0	15	-	0	29,937	0.00	0	0.00	0	0	22	2,026	1995.77	-	-	-	-	-	1.493	135
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms
Water Heating	108	10	98	12,392	0.0	0.1	7,963	18.3	4,502	114.74	0.000	0.014	796	0.187	46
Temp. Reduct.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	48	6	42	850	0.00	0.00	1,443	1.7	580	17.71	0.000	0.000	241	0.040	14
Pipe Insul.	69	6	63	411	0.00	0.00	590	1.2	414	5.96	0.000	0.000	98	0.019	7
LF Showerhead	56	5	51	409	0.00	0.05	2,182	5.5	1,691	7.30	0.000	0.010	436	0.108	33
Faucet Aerator	92	10	82	422	0.00	0.02	668	1.3	401	4.58	0.000	0.002	67	0.016	5
Std-Eff Wtr Htr Repl.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	25	2	23	10,301	0.00	0.08	3,080	8.7	1,415	412.02	0.000	0.038	1,540	0.377	62
Lighting	96	96		2,001	1.4	2.6	13,193	-	-	20.84	0.014	0.027	137	-	-
Capsylite (42W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (18W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (23W)	96	96		2,001	1.39	2.56	13,193	-	-	20.84	0.014	0.027	137	-	-
CFL (25W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL, unknown	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	27	27		11,581	2.86	2.67	23,261	-	-	428.93	0.106	0.099	862		
Refrigerator Removal	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	26	26		11,249	2.78	2.60	22,599	-	-	432.65	0.107	0.100	869	-	-
Freezer Removal	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	1	1		332	0.08	0.08	662	-	-	332.00	0.081	0.076	662	-	-

Costs for Measures Without Energy Impacts Installed in 133 Total Households with Spending and/or Energy Impacts:

Total		**39,622**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	3	107	35.74
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	133	39,514	297.10
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs **253,700**

Grand Total of Expenditures **253,700**

MATURA
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms
OVERALL	**29**	**23**	**24**			**60,104**	**5.3**		**3.8**		**25,434**	**46**	**4,195**	**2072.54**	**0.140**		**0.093**		**1,106**	**1.912**	**175**
Shell & Htg. Sys.	29	21	24	21	24	47,037	2.9	3,501	1.0	1,429	4,931	45	4,008	1621.98	0.138	167	0.040	60	235	1.864	167
Wall Insul.	18	15	16	15	13	7,659	1.01	1,221	0.57	857	2,078	17	1,484	425.48	0.068	81	0.044	66	139	1.035	93
Ceiling Insul	23	18	18	18	13	9,666	1.54	1,852	0.28	415	2,267	9	795	420.27	0.085	103	0.021	32	126	0.493	44
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	10	8	9	8	7	1,433	0.35	428	0.08	117	545	2	217	143.31	0.044	53	0.011	17	68	0.269	24
Bandjoist Insul.	14	12	14	-	12	545	0.00	0	0.03	41	41	1	66	38.94	-	-	0.002	3	3	0.052	5
Hi-Eff Htg Sys Repl	15	0	15	-	0	27,734	0.00	0	0.00	0	0	16	1,446	1848.95	-	-	-	-	-	1.076	96
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms
Water Heating	5	0	5	5	0	5	2,000	0.0	0.0	0	1.2	188	400.00	-	-	-	-	38
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
LF Showerhead	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	5	0	5	5	0	5	2,000	0.00	0.00	0	1.2	188	400.00	-	-	-	-	38
Lighting	17	17		129	129		1,290	0.7	1.3	6,572	-	-	75.88	0.041	0.075	387	-	-
Capsylite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	15	15		81	81		810	0.38	0.71	3,644	-	-	54.00	0.026	0.047	243	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	9	9		32	32		320	0.18	0.34	1,759	-	-	35.56	0.021	0.038	195	-	-
CFL (23W)	1	1		4	4		40	0.03	0.05	268	-	-	40.00	0.028	0.052	268	-	-
CFL (25W)	5	5		12	12		120	0.09	0.17	900	-	-	24.00	0.019	0.035	180	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	14	14		18	18		9,776	1.71	1.60	13,931	-	-	698.30	0.122	0.114	995		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	14	14		14	14		8,313	1.41	1.31	11,426	-	-	593.80	0.100	0.094	816	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	4	4		4	4		1,463	0.31	0.29	2,505	-	-	365.75	0.077	0.072	626	-	-

Costs for Measures Without Energy Impacts Installed in 29 Total Households with Spending and/or Energy Impacts:

Total		**14,110**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	27	14,110	522.61
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs	**74,214**
Grand Total of Expenditures	**74,214**

MICA
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**50**	**45**	**40**			**100,858**	**5.8**		**17.5**		**65,267**	**79**	**7,842**	**2017.16**	**0.062**		**0.182**		**1,450**	**1.971**	**196**
Shell & Htg. Sys.	47	43	36	36	38	88,641	2.8	3,358	11.5	18,305	21,663	78	7,471	1885.98	0.077	93	0.303	482	504	2.168	208
Wall Insul.	28	27	18	21	19	34,848	0.00	2	6.19	9,863	9,866	34	3,275	1244.57	0.000	0	0.326	519	365	1.898	182
Ceiling Insul	42	38	30	31	26	30,228	2.71	3,265	3.85	6,102	9,368	21	1,987	719.71	0.087	105	0.148	235	247	0.693	66
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	20	20	15	16	14	12,007	0.07	90	1.20	1,924	2,014	9	865	600.36	0.005	6	0.085	137	101	0.603	58
Bandjoist Insul.	21	15	19	-	15	3,336	0.00	0	0.26	416	416	2	144	158.86	-	-	0.018	28	28	0.080	8
Hi-Eff Htg Sys Repl	6	0	6	-	0	8,222	0.00	0	0.00	0	0	13	1,200	1370.34	-	-	-	-	-	2.089	200
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms
Water Heating	41	15	26	69	29	40	499	0.0	0.3	12,441	1.6	495	12.18	0.000	0.017	829	0.060	19
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	33	11	22				216	0.00	0.00	1,082	0.4	130	6.54	0.000	0.000	98	0.017	6
LF Showerhead	21	8	13	21	8	13	131	0.00	0.22	9,658	1.0	304	6.25	0.000	0.027	1,207	0.076	23
Faucet Aerator	29	12	17	48	21	27	152	0.00	0.04	1,701	0.2	61	5.25	0.000	0.003	142	0.012	4
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Lighting	43	43		243	243		1,082	1.1	2.1	10,933	-	-	25.17	0.027	0.049	254	-	-
Capsylite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	43	43		243	243		1,082	1.15	2.12	10,933	-	-	25.17	0.027	0.049	254	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (23W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	7	7	4	11	7	4	133	0.00	1.82	4,792	-0.8	-124	19.04	0.000	0.259	685	-0.188	-31
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	7	7	4	11	7	4	133	0.00	1.82	4,792	-0.8	-124	19.04	0.000	0.259	685	-0.188	-31
Refrigerator/Freezer	17	17		18	18		10,502	1.90	1.78	15,438	-	-	617.77	0.112	0.104	908		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	17	17		17	17		10,122	1.82	1.70	14,776	-	-	595.42	0.107	0.100	869	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	1	1		1	1		380	0.08	0.08	662	-	-	379.99	0.081	0.076	662	-	-

Costs for Measures Without Energy Impacts Installed in 50 Total Households with Spending and/or Energy Impacts:

Total		**12,518**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	48	12,518	260.80
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs	**113,376**
Grand Total of Expenditures	**113,376**

Mid-Sioux
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Estimated First-Year Savings: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**29**	**26**	**25**			**70,588**	**4.0**		**3.7**		**22,308**	**63**	**6,317**	**2434.07**	**0.089**		**0.072**		**858**	**2.501**	**253**
Shell & Htg. Sys.	27	21	25	19	25	63,379	2.0	2,367	0.5	883	3,249	62	6,042	2347.38	0.103	125	0.021	35	155	2.463	242
Wall Insul.	16	15	14	14	8	17,511	0.43	513	0.36	591	1,103	23	2,263	1094.42	0.030	37	0.045	74	74	1.645	162
Ceiling Insul	19	18	17	17	9	9,893	1.55	1,867	0.14	228	2,095	9	896	520.69	0.091	110	0.015	25	116	0.536	53
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	10	8	9	8	4	1,935	-0.01	(13)	0.03	47	35	4	356	193.45	-0.001	(2)	0.007	12	4	0.402	40
Bandjoist Insul.	8	6	8	-	6	649	0.00	0	0.01	17	17	0	49	81.09	-	-	0.002	3	3	0.062	6
Hi-Eff Htg Sys Repl	15	0	15	-	0	33,392	0.00	0	0.00	0	0	25	2,478	2226.14	-	-	-	-	-	1.689	165
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Measures by Fuel Type: Total	Electric	Gas				Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms
Water Heating	18	2	16	1	0	1	782	0.0	0.0	678	1.0	275	43.44	0.000	0.001	339	0.059	17
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	17	2	15				289	0.00	0.00	481	0.5	160	17.00	0.000	0.000	241	0.031	11
Pipe Insul.	15	2	13				93	0.00	0.00	197	0.2	66	6.20	0.000	0.000	98	0.015	5
LF Showerhead	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	1	0	1	1	0	1	400	0.00	0.00	0	0.3	49	400.00	-	-	-	0.299	49
Lighting	24	24		177	177		2,107	1.3	2.5	12,711	-	-	87.79	0.056	0.103	530	-	-
Capsylite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (23W)	22	22		160	160		1,831	1.13	2.08	10,715	-	-	83.23	0.051	0.094	487	-	-
CFL (25W)	1	1		1	1		10	0.01	0.01	75	-	-	10.00	0.008	0.015	75	-	-
CFL (30W)	4	4		16	16		266	0.20	0.37	1,920	-	-	66.50	0.050	0.093	480	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	7	7		7	7		4,320	0.70	0.65	5,670	-	-	617.13	0.100	0.093	810		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	5	5		5	5		3,560	0.53	0.50	4,346	-	-	711.99	0.107	0.100	869	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	2	2		2	2		760	0.16	0.15	1,324	-	-	379.99	0.081	0.076	662	-	-

Costs for Measures Without Energy Impacts Installed in 29 Total Households with Spending and/or Energy Impacts:

Total		**13,319**
Unspecified Insul.	11	166
Duct Insulation	0	0
Duct Sealing	0	0
Damming Materia	0	0
Htg. Sys. Tune & Clean	0	0
Htg. Sys./WH Other	0	0
Space Heater Repl	0	0
Air Conditioning Work	0	0
Water Heater Repair	1	32
Refrigerator Coil Clear	0	0
Unspecified Utility Meas	0	0
Asbestos Abatement	0	0
CO Detector	0	0
Smoke Detector	0	0
Fuses	0	0
Htg Sys Safety Check	0	0
Exhaust Ventilation	0	0
Health/Safety Repairs	0	0
Health/Safety Other	0	0
Consumables	0	0
Preservation	0	0
Roof Repairs	0	0
General Repairs	0	0
Evaluator Labor	0	0
Inspector Labor	0	0
Eval/Insp Labor	0	0
Meter Refrig (no action	0	0
Meter Freezer (no action	0	0
Support	29	13,121
Landlord Contr Misc	0	0
Landlord Contr Furnace	0	0
Landlord Contr DHW	0	0
Client Contr Misc	0	0
Client Contr Refr	0	0
Warehouse	0	0
Unspecifed	0	0

		Spending ($)
Unspecified Insul.		15.10
Duct Insulation		0.00
Duct Sealing		0.00
Damming Materia		0.00
Htg. Sys. Tune & Clean		0.00
Htg. Sys./WH Other		0.00
Space Heater Repl		0.00
Air Conditioning Work		0.00
Water Heater Repair		31.86
Refrigerator Coil Clear		0.00
Unspecified Utility Meas		0.00
Asbestos Abatement		0.00
CO Detector		0.00
Smoke Detector		0.00
Fuses		0.00
Htg Sys Safety Check		0.00
Exhaust Ventilation		0.00
Health/Safety Repairs		0.00
Health/Safety Other		0.00
Consumables		0.00
Preservation		0.00
Roof Repairs		0.00
General Repairs		0.00
Evaluator Labor		0.00
Inspector Labor		0.00
Eval/Insp Labor		0.00
Meter Refrig (no action		0.00
Meter Freezer (no action		0.00
Support		452.43
Landlord Contr Misc		0.00
Landlord Contr Furnace		0.00
Landlord Contr DHW		0.00
Client Contr Misc		0.00
Client Contr Refr		0.00
Warehouse		0.00
Unspecifed		0.00

Total Reported Materials, Labor, and Support Costs	**83,907**
Grand Total of Expenditures	**83,907**

City of Des Moines
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**92**	**90**	**90**			**150,307**	**10.7**		**9.4**		**55,513**	**182**	**16,626**	**1633.77**	**0.118**		**0.101**		**617**	**2.021**	**185**
Shell & Htg. Sys.	86	86	86	84	86	127,447	5.6	6,701	4.4	6,701	13,402	181	16,350	1481.94	0.066	80	0.051	78	156	2.105	190
Wall Insul.	67	67	67	60	67	63,228	2.80	3,373	2.85	4,312	7,685	113	10,202	943.70	0.047	56	0.043	64	115	1.686	152
Ceiling Insul	75	75	75	61	75	48,666	3.63	4,381	1.09	1,655	6,036	43	3,889	648.88	0.060	72	0.015	22	80	0.574	52
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	30	30	30	30	30	9,411	-0.87	(1,054)	0.42	640	(414)	17	1,513	313.70	-0.029	(35)	0.014	21	(14)	0.558	50
Bandjoist Insul.	25	25	25	-	25	2,435	0.00	0	0.06	94	94	2	190	97.40	-	-	0.002	4	4	0.084	8
Hi-Eff Htg Sys Repl	3	0	3	-	0	3,707	0.00	0	0.00	0	0	6	557	1235.67	-	-	-	-	-	2.054	186
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms
Water Heating	43	0	43	8	0	8	1,010	0.0	0.0	0	0.8	276	23.49	-	-	-	0.019	6
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	1	0	1				10	0.00	0.00	0	0.0	12	10.00	-	-	-	0.035	12
Pipe Insul.	39	0	39				915	0.00	0.00	0	0.7	226	23.46	-	-	-	0.017	6
LF Showerhead	2	0	2	2	0	2	30	0.00	0.00	0	0.1	22	15.00	-	-	-	0.036	11
Faucet Aerator	3	0	3	6	0	6	55	0.00	0.00	0	0.1	16	18.33	-	-	-	0.017	5
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Lighting	7	7		24	24		318	0.2	0.3	1,695	-	-	45.43	0.025	0.047	242	-	-
Capsylite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	2	2		3	3		40	0.01	0.03	135	-	-	19.88	0.007	0.013	67	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (23W)	1	1		2	2		27	0.01	0.03	134	-	-	26.50	0.014	0.026	134	-	-
CFL (25W)	5	5		19	19		252	0.15	0.28	1,426	-	-	50.35	0.030	0.055	285	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	47	47		47	47		21,532	4.97	4.65	40,417	-	-	458.13	0.106	0.099	860		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	47	47		47	47		21,532	4.97	4.65	40,417	-	-	458.13	0.106	0.099	860	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 92 Total Households with Spending and/or Energy Impacts:

Total		**25,753**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	1	40	40.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	87	25,713	295.55
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs **176,060**

Grand Total of Expenditures **176,060**

North Iowa
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**66**	**56**	**47**			**79,566**	**4.9**		**7.9**		**36,110**	**90**	**8,919**	**1205.55**	**0.050**		**0.083**		**645**	**1.907**	**190**
Shell & Htg. Sys.	65	54	47	50	48	66,527	1.8	2,112	3.8	6,274	8,385	89	8,874	1023.49	0.035	42	0.078	131	155	1.902	189
Wall Insul.	28	23	22	23	16	13,225	1.01	1,222	0.50	829	2,051	26	2,579	472.31	0.044	53	0.031	52	89	1.181	117
Ceiling Insul	55	46	39	43	28	22,144	0.60	728	2.90	4,842	5,570	28	2,791	402.62	0.014	17	0.104	173	121	0.724	72
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	28	23	18	22	14	4,989	0.13	162	0.33	555	717	6	573	178.19	0.006	7	0.024	40	31	0.320	32
Bandjoist Insul.	22	15	22	-	15	1,343	0.00	0	0.03	48	48	2	166	61.04	-	-	0.002	3	3	0.076	8
Hi-Eff Htg Sys Repl	19	0	19	-	0	24,826	0.00	0	0.00	0	0	28	2,766	1306.61	-	-	-	-	-	1.459	146
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
				Number of Measures by Fuel Type:																	
	Total	Electric	Gas	Total	Electric	Gas		Summer kW		Winter kW	Annual kWh	Peak-Day therms	Annual therms		Summer kW		Winter kW		Annual kWh	Peak-Day therms	Annual therms
Water Heating	5	0	5	6	0	6	514	0.0		0.0	0	0.2	44	102.89	-		-		-	0.048	9
Temp. Reduct.	0	0	0				0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
WH Wrap	0	0	0				0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Pipe Insul.	1	0	1				5	0.00		0.00	0	0.0	5	4.66	-		-		-	0.014	5
LF Showerhead	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Faucet Aerator	3	0	3	5	0	5	10	0.00		0.00	0	0.0	5	3.27	-		-		-	0.006	2
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Hi-Eff Wtr Htr Repl.	1	0	1	1	0	1	500	0.00		0.00	0	0.2	34	500.00	-		-		-	0.210	34
Lighting	48	48		278	278		2,477	1.3		2.4	12,508	-	-	51.60	0.027		0.051		261	-	-
Capsylite (42W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Capsylite (52W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Capsylite (72W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Capsylite, unknown	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (5W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (7W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (9W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (11W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (15W)	48	48		278	278		2,477	1.31		2.43	12,508	-	-	51.60	0.027		0.051		261	-	-
CFL (18W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (20W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (23W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (25W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (30W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL, unknown	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
King	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Queen	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Double	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Single	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Unknown	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Refrigerator/Freezer	16	16		19	19		10,048	1.87		1.75	15,217	-	-	628.00	0.117		0.109		951		
Refrigerator Removal	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Refrigerator Exchange	13	13		13	13		8,451	1.38		1.29	11,194	-	-	650.04	0.106		0.099		861	-	-
Freezer Removal	1	1		1	1		15	0.09		0.08	713	-	-	15.00	0.088		0.082		713	-	-
Freezer Exchange	5	5		5	5		1,583	0.41		0.38	3,310	-	-	316.50	0.081		0.076		662	-	-

Costs for Measures Without Energy Impacts Installed in 66 Total Households with Spending and/or Energy Impacts:

Total		**8,431**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	61	8,431	138.22
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs	**87,998**
Grand Total of Expenditures	**87,998**

NE Iowa
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**61**	**54**	**39**			**72,925**	**4.9**		**5.2**		**36,444**	**64**	**6,417**	**1195.49**	**0.059**		**0.053**		**675**	**1.644**	**165**
Shell & Htg. Sys.	45	24	34	19	35	57,956	1.5	1,844	1.6	2,579	4,423	64	6,234	1287.91	0.080	97	0.044	74	184	1.870	183
Wall Insul.	26	14	21	11	4	18,921	1.16	1,393	0.16	258	1,651	30	2,935	727.74	0.105	127	0.039	64	118	1.427	140
Ceiling Insul	32	19	23	14	7	12,067	0.41	497	0.94	1,568	2,064	12	1,191	377.10	0.029	35	0.135	224	109	0.529	52
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	16	9	11	6	3	5,128	-0.04	(46)	0.32	525	480	5	479	320.50	-0.006	(8)	0.105	175	53	0.440	44
Bandjoist Insul.	9	2	8	-	2	1,233	0.00	0	0.14	228	228	1	66	136.95	-	-	0.069	114	114	0.085	8
Hi-Eff Htg Sys Repl	14	0	14	-	0	20,607	0.00	0	0.00	0	0	16	1,564	1471.93	-	-	-	-	-	1.139	112
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Households with Impacts: Total	Electric	Gas	Number of Measures by Fuel Type: Total	Electric	Gas	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms
Water Heating	46	18	28	3	3	0	553	0.0	0.0	3,956	0.5	182	12.03	0.000	0.003	220	0.019	7
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	4	2	2				50	0.00	0.00	481	0.1	24	12.50	0.000	0.000	241	0.034	12
Pipe Insul.	46	18	28				67	0.00	0.00	1,770	0.5	158	1.45	0.000	0.000	98	0.016	6
LF Showerhead	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Faucet Aerator	1	1	0	2	2	0	1	0.00	0.00	17	0.0	0	0.72	0.000	0.000	17	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	1	1	0	1	1	0	436	0.00	0.04	1,688	0.0	0	435.75	0.000	0.042	1,688	-	-
Lighting	46	46		94	94		408	0.6	1.0	5,300	-	-	8.87	0.012	0.022	115	-	-
Capsylite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	40	40		83	83		364	0.48	0.89	4,563	-	-	9.10	0.012	0.022	114	-	-
CFL (23W)	6	6		11	11		44	0.08	0.14	737	-	-	7.33	0.013	0.024	123	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	22	22		29	29		14,008	2.80	2.62	22,764	-	-	636.73	0.127	0.119	1,035		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	20	20		20	20		11,089	2.07	1.93	16,823	-	-	554.45	0.103	0.097	841	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	9	9		9	9		2,919	0.73	0.68	5,941	-	-	324.33	0.081	0.076	660	-	-

Costs for Measures Without Energy Impacts Installed in 61 Total Households with Spending and/or Energy Impacts:

Total		**10,986**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	54	10,986	203.45
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs	**83,911**
Grand Total of Expenditures	**83,911**

New View
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms
OVERALL	**58**	**43**	**56**			**69,788**	**8.0**		**4.9**		**39,046**	**32**	**3,045**	**1203.24**	**0.094**		**0.050**		**908**	**0.573**	**54**
Shell & Htg. Sys.	58	42	56	42	56	55,523	4.1	4,925	0.0	0	4,925	32	3,045	957.30	0.097	117	0.000	0	117	0.573	54
Wall Insul.	34	25	23	25	0	14,253	1.82	2,195	0.00	0	2,195	8	804	419.21	0.073	88	-	-	88	0.369	35
Ceiling Insul	55	41	52	41	0	32,591	2.29	2,767	0.00	0	2,767	11	1,037	592.56	0.056	67	-	-	67	0.210	20
Infil. Reduction	47	0	47	0	0	5,420	0.00	0	0.00	0	0	11	1,057	115.33	-	-	-	-	-	0.237	22
Found./Crawl. Insul.	10	5	7	5	0	1,307	-0.03	(38)	0.00	0	(38)	1	77	130.71	-0.006	(8)	-	-	(8)	0.116	11
Bandjoist Insul.	14	0	14	-	0	952	0.00	0	0.00	0	0	0	44	68.00	-	-	-	-	-	0.033	3
Hi-Eff Htg Sys Repl	1	0	1	-	0	1,000	0.00	0	0.00	0	0	0	25	1000.00	-	-	-	-	-	0.267	25
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas				Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms
Water Heating	1	1	0	0	0	0	105	0.0	0.0	339	0.0	0	105.29	0.000	0.001	339	-	-
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	1	1	0				75	0.00	0.00	241	0.0	0	74.50	0.000	0.000	241	-	-
Pipe Insul.	1	1	0				21	0.00	0.00	98	0.0	0	21.29	0.000	0.000	98	-	-
LF Showerhead	0	0	0	0	0	0	7	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	3	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Lighting	42	42		218	218		2,180	1.4	2.6	13,452	-	-	51.90	0.034	0.062	320	-	-
Capsylite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	6	6		33	33		330	0.16	0.29	1,485	-	-	55.00	0.026	0.048	247	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	9	9		46	46		460	0.27	0.49	2,529	-	-	51.11	0.030	0.055	281	-	-
CFL (23W)	25	25		123	123		1,230	0.86	1.60	8,237	-	-	49.20	0.035	0.064	329	-	-
CFL (25W)	3	3		16	16		160	0.13	0.23	1,201	-	-	53.33	0.042	0.078	400	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	18	18		25	25		11,979	2.50	2.34	20,330	-	-	665.50	0.139	0.130	1,129		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	18	18		18	18		10,290	1.92	1.80	15,645	-	-	571.67	0.107	0.100	869	-	-
Freezer Removal	1	1		1	1		25	0.09	0.08	713	-	-	25.00	0.088	0.082	713	-	-
Freezer Exchange	6	6		6	6		1,664	0.49	0.46	3,973	-	-	277.33	0.081	0.076	662	-	-

Costs for Measures Without Energy Impacts Installed in 59 Total Households with Spending and/or Energy Impacts:

Total		**10,541**	
Unspecified Insul.	38	4,096	107.78
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	1	33	32.67
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	44	6,412	145.73
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs **80,328**

Grand Total of Expenditures **80,328**

Threshold
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**58**	**52**	**57**			**110,922**	**4.9**		**5.7**		**30,236**	**133**	**13,233**	**1912.44**	**0.065**		**0.057**		**581**	**2.331**	**232**
Shell & Htg. Sys.	57	51	57	31	57	95,271	2.2	2,608	2.3	3,812	6,419	130	12,588	1671.42	0.070	84	0.041	67	126	2.273	221
Wall Insul.	46	45	46	26	44	40,791	1.75	2,111	1.57	2,563	4,674	61	5,939	886.76	0.067	81	0.036	58	104	1.329	129
Ceiling Insul	43	41	43	22	40	25,184	0.39	469	0.57	934	1,403	22	2,166	585.68	0.018	21	0.014	23	34	0.519	50
Infil. Reduction	2	0	2	0	0	181	0.00	0	0.00	0	0	1	111	90.47	-	-	-	-	-	0.565	56
Found./Crawl. Insul.	10	10	10	8	10	2,469	0.02	27	0.13	206	233	4	405	246.94	0.003	3	0.013	21	23	0.416	40
Bandjoist Insul.	32	31	32	-	31	1,036	0.00	0	0.07	109	109	2	242	32.37	-	-	0.002	4	4	0.078	8
Hi-Eff Htg Sys Repl	18	0	18	-	0	25,610	0.00	0	0.00	0	0	38	3,725	1422.76	-	-	-	-	-	2.129	207
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Households with Impacts: Total	Electric	Gas	Number of Measures by Fuel Type: Total	Electric	Gas	Spending on Materials & Labor ($)	Estimated First-Year Savings: Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms
Water Heating	43	3	40	10	0	10	4,545	0.0	0.0	295	3.3	645	105.70	0.000	0.000	98	0.083	16
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	43	3	40				258	0.00	0.00	295	0.6	197	6.00	0.000	0.000	98	0.014	5
LF Showerhead	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	10	0	10	10	0	10	4,287	0.00	0.00	0	2.7	447	428.69	-	-	-	0.274	45
Lighting	41	41		131	131		688	0.9	1.7	8,709	-	-	16.78	0.022	0.041	212	-	-
Capsylite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	1	1		1	1		5	0.00	0.01	45	-	-	4.80	0.005	0.009	45	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	2	2		13	13		209	0.08	0.14	715	-	-	104.40	0.038	0.069	357	-	-
CFL (23W)	40	40		114	114		462	0.80	1.48	7,635	-	-	11.54	0.020	0.037	191	-	-
CFL (25W)	1	1		1	1		5	0.01	0.01	75	-	-	4.80	0.008	0.015	75	-	-
CFL (30W)	1	1		2	2		8	0.03	0.05	240	-	-	7.64	0.025	0.047	240	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	16	16		18	18		10,418	1.82	1.70	14,812	-	-	651.11	0.114	0.106	926		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	16	16		16	16		9,620	1.68	1.57	13,691	-	-	601.24	0.105	0.098	856	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	2	2		2	2		798	0.14	0.13	1,121	-	-	399.00	0.069	0.064	560	-	-

Costs for Measures Without Energy Impacts Installed in 58 Total Households with Spending and/or Energy Impacts:

Total		**10,609**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	8	764	95.56
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	51	9,844	193.03
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs	**121,531**
Grand Total of Expenditures	**121,531**

SCICAP
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**31**	**31**	**21**			**49,091**	**4.7**		**8.6**		**33,877**	**37**	**3,357**	**1583.59**	**0.124**		**0.191**		**1,093**	**1.752**	**160**
Shell & Htg. Sys.	22	21	21	15	22	35,043	2.0	2,431	5.6	8,354	10,785	37	3,316	1592.84	0.134	162	0.253	380	514	1.743	158
Wall Insul.	15	15	14	8	15	6,109	0.65	781	2.41	3,623	4,404	11	988	407.28	0.081	98	0.161	242	294	0.782	71
Ceiling Insul	21	21	20	15	21	16,366	1.23	1,488	2.11	3,167	4,654	12	1,064	779.34	0.082	99	0.100	151	222	0.586	53
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	10	10	9	7	10	2,616	0.14	163	1.01	1,510	1,673	4	362	261.57	0.019	23	0.101	151	167	0.450	40
Bandjoist Insul.	12	12	12	-	12	485	0.00	0	0.04	54	54	1	63	40.41	-	-	0.003	5	5	0.058	5
Hi-Eff Htg Sys Repl	6	0	6	-	0	9,467	0.00	0	0.00	0	0	9	839	1577.78	-	-	-	-	-	1.532	140
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms	Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms
Water Heating	8	3	5	430	0.0	0.0	295	0.2	41	53.77	0.000	0.000	98	0.039	8
Temp. Reduct.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	7	3	4	30	0.00	0.00	295	0.1	18	4.31	0.000	0.000	98	0.013	4
LF Showerhead	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Faucet Aerator	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	1	0	1	400	0.00	0.00	0	0.1	23	400.00	-	-	-	0.142	23
Lighting	20	20		434	0.6	1.0	5,352	-	-	21.72	0.028	0.052	268	-	-
Capsylite (42W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	16	16		56	56	232	0.26	0.49	2,520	-	-	14.53	0.017	0.031	157	-	-
CFL (18W)	0	0		0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	15	15		33	33	139	0.19	0.35	1,814	-	-	9.29	0.013	0.023	121	-	-
CFL (23W)	2	2		4	4	21	0.03	0.05	268	-	-	10.74	0.014	0.026	134	-	-
CFL (25W)	8	8		10	10	41	0.08	0.15	750	-	-	5.14	0.010	0.018	94	-	-
CFL (30W)	0	0		0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL, unknown	0	0		0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	20	20		22	22	13,184	2.15	2.01	17,445	-	-	659.20	0.107	0.100	872		
Refrigerator Removal	0	0		0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	16	16		16	16	10,245	1.66	1.55	13,472	-	-	640.31	0.104	0.097	842	-	-
Freezer Removal	0	0		0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	6	6		6	6	2,939	0.49	0.46	3,973	-	-	489.83	0.081	0.076	662	-	-

Costs for Measures Without Energy Impacts Installed in 32 Total Households with Spending and/or Energy Impacts:

Total		**9,014**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	26	9,314	358.23
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	1	(300)	-300.00

Total Reported Materials, Labor, and Support Costs **58,105**

Grand Total of Expenditures **58,105**

CASEI
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms
OVERALL	**78**	**71**	**51**			**103,539**	**11.9**		**9.4**		**39,126**	**146**	**12,911**	**1327.42**	**0.095**		**0.082**		**551**	**2.862**	**253**
Shell & Htg. Sys.	74	66	51	63	52	98,602	9.9	11,953	6.3	9,419	21,372	145	12,782	1332.46	0.157	190	0.121	181	324	2.846	251
Wall Insul.	63	57	44	55	32	32,343	4.71	5,681	1.29	1,907	7,588	75	6,616	513.38	0.086	103	0.040	60	133	1.708	150
Ceiling Insul	74	66	51	63	36	33,359	4.99	6,021	4.93	7,397	13,419	29	2,548	450.80	0.079	96	0.137	205	203	0.567	50
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	25	22	15	21	8	2,986	0.21	251	0.08	112	363	10	850	119.46	0.010	12	0.009	14	16	0.644	57
Bandjoist Insul.	1	1	1	-	1	84	0.00	0	0.00	3	3	0	8	84.49	-	-	0.002	3	3	0.087	8
Hi-Eff Htg Sys Repl	18	0	18	-	0	29,828	0.00	0	0.00	0	0	31	2,762	1657.13	-	-	-	-	-	1.741	153
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms
Water Heating	2	0	2	2	0	2	759	0.0	0.0	0	0.8	128	379.27	-	-	-	0.393	64
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
LF Showerhead	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	2	0	2	2	0	2	759	0.00	0.00	0	0.8	128	379.27	-	-	-	0.393	64
Lighting	62	62		332	332		1,448	1.4	2.5	12,948	-	-	23.35	0.022	0.041	209	-	-
Capsylite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	10	10		47	47		218	0.10	0.18	939	-	-	21.82	0.010	0.018	94	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	31	31		111	111		479	0.34	0.62	3,220	-	-	15.46	0.011	0.020	104	-	-
CFL (15W)	38	38		137	137		561	0.65	1.20	6,164	-	-	14.75	0.017	0.031	162	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	8	8		12	12		80	0.07	0.13	660	-	-	9.99	0.009	0.016	82	-	-
CFL (23W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (25W)	20	20		23	23		92	0.18	0.33	1,726	-	-	4.58	0.009	0.017	86	-	-
CFL (30W)	1	1		2	2		18	0.03	0.05	240	-	-	17.98	0.025	0.047	240	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	7	7		7	7		2,731	0.59	0.55	4,806	-	-	390.14	0.084	0.079	687		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	1	1		1	1		763	0.11	0.10	869	-	-	763.00	0.107	0.100	869	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	6	6		6	6		1,968	0.48	0.45	3,937	-	-	327.99	0.081	0.075	656	-	-

Costs for Measures Without Energy Impacts Installed in 78 Total Households with Spending and/or Energy Impacts:

Total		**23,439**	
Unspecified Insul.	21	332	15.79
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	74	23,107	312.26
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs **126,978**

Grand Total of Expenditures **126,978**

SIEDA
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**74**	**73**	**49**			**98,971**	**13.2**		**21.7**		**87,892**	**82**	**7,832**	**1337.45**	**0.093**		**0.162**		**1,204**	**1.674**	**160**
Shell & Htg. Sys.	67	65	45	58	50	76,351	8.5	10,249	15.4	23,018	33,267	79	6,995	1139.57	0.147	177	0.308	460	512	1.752	155
Wall Insul.	43	43	27	40	22	20,067	3.50	4,220	6.07	9,087	13,307	34	2,987	466.68	0.087	106	0.276	413	309	1.246	111
Ceiling Insul	55	55	32	53	25	18,054	4.51	5,433	6.62	9,907	15,341	15	1,303	328.25	0.085	103	0.265	396	279	0.459	41
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	24	24	15	23	14	4,595	0.49	596	2.19	3,256	3,852	7	633	191.45	0.021	26	0.156	233	160	0.477	42
Bandjoist Insul.	32	24	28	-	24	2,785	0.00	0	0.52	768	768	2	148	87.03	-	-	0.022	32	32	0.059	5
Hi-Eff Htg Sys Repl	13	0	13	-	0	30,850	0.00	0	0.00	0	0	22	1,924	2373.08	-	-	-	-	-	1.669	148
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas																	
Water Heating	61	22	39	106	36	70	4,358	0.0		0.3	14,292	3.1	837	71.45	0.000		0.014		650	0.081	21
Temp. Reduct.	0	0	0				0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
WH Wrap	8	0	8				125	0.00		0.00	0	0.2	74	15.57	-		-		-	0.027	9
Pipe Insul.	43	13	30				242	0.00		0.00	1,279	0.4	132	5.63	0.000		0.000		98	0.013	4
LF Showerhead	25	7	18	26	7	19	197	0.00		0.09	4,083	1.2	376	7.89	0.000		0.013		583	0.068	21
Faucet Aerator	41	14	27	70	24	46	130	0.00		0.01	635	0.3	79	3.16	0.000		0.001		45	0.010	3
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Hi-Eff Wtr Htr Repl.	10	5	5	10	5	5	3,665	0.00		0.20	8,295	1.1	176	366.46	0.000		0.041		1,659	0.215	35
Lighting	62	62		315	315		2,156	1.8		3.3	16,810	-	-	34.78	0.028		0.053		271	-	-
Capsylite (42W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Capsylite (52W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Capsylite (72W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Capsylite, unknown	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (5W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (7W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (9W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (11W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (15W)	38	38		199	199		1,361	0.94		1.74	8,953	-	-	35.82	0.025		0.046		236	-	-
CFL (18W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (20W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (23W)	33	33		105	105		719	0.74		1.36	7,032	-	-	21.80	0.022		0.041		213	-	-
CFL (25W)	3	3		11	11		75	0.09		0.16	825	-	-	25.12	0.029		0.053		275	-	-
CFL (30W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL, unknown	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
King	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Queen	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Double	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Single	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Unknown	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Refrigerator/Freezer	27	27		29	29		16,106	2.89		2.71	23,522	-	-	596.52	0.107		0.100		871		
Refrigerator Removal	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Refrigerator Exchange	25	25		25	25		14,650	2.60		2.43	21,160	-	-	586.00	0.104		0.097		846	-	-
Freezer Removal	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Freezer Exchange	4	4		4	4		1,456	0.29		0.27	2,363	-	-	364.00	0.073		0.068		591	-	-

Costs for Measures Without Energy Impacts Installed in 74 Total Households with Spending and/or Energy Impacts:

Total		**16,899**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	5	145	28.95
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	1	19	18.95
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	73	16,735	229.25
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs **115,871**

Grand Total of Expenditures **115,871**

Upper Des Moines
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**82**	**50**	**78**			**167,763**	**4.9**		**4.0**		**23,393**	**147**	**14,813**	**2045.89**	**0.160**		**0.050**		**468**	**1.885**	**190**
Shell & Htg. Sys.	82	48	78	30	78	147,541	3.0	3,562	2.1	3,449	7,012	143	13,990	1799.28	0.098	119	0.027	44	146	1.829	179
Wall Insul.	57	38	54	20	33	50,901	1.56	1,878	1.42	2,337	4,214	70	6,825	893.01	0.078	94	0.043	71	111	1.289	126
Ceiling Insul	76	44	72	24	37	53,080	1.37	1,647	0.52	859	2,506	35	3,459	698.42	0.057	69	0.014	23	57	0.490	48
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	23	11	23	6	11	6,292	0.03	37	0.14	227	264	9	889	273.56	0.005	6	0.013	21	24	0.394	39
Bandjoist Insul.	16	8	16	-	8	711	0.00	0	0.02	27	27	1	113	44.47	-	-	0.002	3	3	0.072	7
Hi-Eff Htg Sys Repl	21	0	21	-	0	36,556	0.00	0	0.00	0	0	28	2,704	1740.77	-	-	-	-	-	1.314	129
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Households with Impacts: Total	Electric	Gas	Number of Measures by Fuel Type: Total	Electric	Gas	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms
Water Heating	35	1	34	59	2	57	7,002	0.0	0.0	167	4.3	822	200.04	0.000	0.004	167	0.127	24
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	29	0	29				171	0.00	0.00	0	0.4	142	5.90	-	-	-	0.014	5
LF Showerhead	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Faucet Aerator	26	1	25	44	2	42	110	0.00	0.00	167	0.3	88	4.23	0.000	0.004	167	0.011	4
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	15	0	15	15	0	15	6,721	0.00	0.00	0	3.6	592	448.03	-	-	-	0.242	39
Lighting	0	0		0	0		0	0.0	0.0	0	-	-	0.00	-	-	-	-	-
Capsylite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (23W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	19	19		19	19		13,220	1.99	1.86	16,215	-	-	695.79	0.105	0.098	853		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	19	19		19	19		13,220	1.99	1.86	16,215	-	-	695.79	0.105	0.098	853	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 82 Total Households with Spending and/or Energy Impacts:

Total		**24,655**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	47	24,655	524.57
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs **192,418**

Grand Total of Expenditures **192,418**

West Central
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk-Day therms	Annual therms
OVERALL	**130**	**87**	**119**			**150,425**	**11.2**		**15.7**		**54,619**	**148**	**14,721**	**1157.11**	**0.081**		**0.088**		**628**	**1.243**	**124**
Shell & Htg. Sys.	127	79	116	77	118	139,695	9.2	11,047	13.2	20,323	31,370	143	13,143	1099.96	0.119	143	0.112	172	397	1.230	113
Wall Insul.	83	54	75	52	16	42,848	3.65	4,408	6.55	10,109	14,516	61	5,626	516.24	0.070	85	0.409	632	269	0.815	75
Ceiling Insul	110	74	96	72	17	49,166	5.61	6,766	6.52	10,078	16,843	34	3,090	446.96	0.078	94	0.384	593	228	0.350	32
Infil. Reduction	37	0	37	0	0	6,186	0.00	0	0.00	0	0	17	1,553	167.19	-	-	-	-	-	0.451	42
Found./Crawl. Insul.	40	21	35	21	6	15,509	-0.10	(127)	0.08	126	(0)	15	1,380	387.74	-0.005	(6)	0.014	21	(0)	0.429	39
Bandjoist Insul.	23	2	23	-	2	1,602	0.00	0	0.01	10	10	1	130	69.64	-	-	0.003	5	5	0.062	6
Hi-Eff Htg Sys Repl	12	0	12	-	0	24,384	0.00	0	0.00	0	0	15	1,364	2032.03	-	-	-	-	-	1.243	114
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms
Water Heating	115	15	100	2,600	0.0	0.1	6,106	5.3	1,578	22.61	0.000	0.007	407	0.053	16
Temp. Reduct.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	7	1	6	105	0.00	0.00	241	0.2	59	15.00	0.000	0.000	241	0.028	10
Pipe Insul.	81	11	70	453	0.00	0.00	1,082	0.9	329	5.59	0.000	0.000	98	0.014	5
LF Showerhead	42	4	38	318	0.00	0.07	3,116	2.8	860	7.56	0.000	0.018	779	0.074	23
Faucet Aerator	96	13	83	425	0.00	0.04	1,668	0.8	238	4.42	0.000	0.003	128	0.009	3
Std-Eff Wtr Htr Repl.	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	3	0	3	1,300	0.00	0.00	0	0.6	92	433.33	-	-	-	0.188	31
Lighting	46	46		1,123	0.6	1.2	6,051	-	-	24.42	0.014	0.026	132	-	-
Capsylite (42W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	1	1		50	0.01	0.02	100	-	-	50.00	0.010	0.019	100	-	-
CFL (7W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	2	2		20	0.00	0.01	32	-	-	10.00	0.002	0.003	16	-	-
CFL (11W)	3	3		114	0.03	0.06	290	-	-	37.88	0.010	0.019	97	-	-
CFL (15W)	22	22		417	0.19	0.36	1,845	-	-	18.95	0.009	0.016	84	-	-
CFL (18W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (23W)	25	25		357	0.25	0.45	2,344	-	-	14.28	0.010	0.018	94	-	-
CFL (25W)	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	8	8		166	0.15	0.28	1,440	-	-	20.69	0.019	0.035	180	-	-
CFL, unknown	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	12	12		7,007	1.36	1.28	11,092	-	-	583.89	0.114	0.106	924		
Refrigerator Removal	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	12	12		6,689	1.28	1.20	10,430	-	-	557.43	0.107	0.100	869	-	-
Freezer Removal	0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	1	1		318	0.08	0.08	662	-	-	317.50	0.081	0.076	662	-	-

Costs for Measures Without Energy Impacts Installed in 131 Total Households with Spending and/or Energy Impacts:

Total		**19,638**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	32	710	22.19
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	113	18,928	167.50
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs	**170,063**
Grand Total of Expenditures	**170,063**

CAA Siouxland
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**47**	**39**	**43**			**66,829**	**5.3**		**5.0**		**30,407**	**94**	**9,286**	**1421.89**	**0.091**		**0.070**		**780**	**2.193**	**216**
Shell & Htg. Sys.	33	25	32	19	32	60,893	3.1	3,702	1.2	1,800	5,502	92	8,554	1845.24	0.162	195	0.036	56	220	2.876	267
Wall Insul.	22	19	21	14	18	14,556	1.61	1,945	0.73	1,134	3,079	40	3,758	661.62	0.115	139	0.040	63	162	1.928	179
Ceiling Insul	27	22	26	18	21	13,640	1.27	1,534	0.29	459	1,993	16	1,531	505.17	0.071	85	0.014	22	91	0.635	59
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	7	6	7	6	6	3,631	0.19	224	0.11	176	399	7	630	518.74	0.031	37	0.019	29	67	0.969	90
Bandjoist Insul.	18	14	18	-	14	1,430	0.00	0	0.02	31	31	1	113	79.47	-	-	0.001	2	2	0.067	6
Hi-Eff Htg Sys Repl	12	0	12	-	0	27,636	0.00	0	0.00	0	0	27	2,522	2302.99	-	-	-	-	-	2.254	210
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Households with Impacts: Total	Electric	Gas	Number of Measures by Fuel Type: Total	Electric	Gas	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms	Average per Treated Household: Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms
Water Heating	34	3	31	16	2	14	476	0.0	0.1	4,288	2.3	733	13.99	0.000	0.025	1,429	0.074	24
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	13	3	10				210	0.00	0.00	722	0.3	113	16.19	0.000	0.000	241	0.032	11
Pipe Insul.	32	3	29				172	0.00	0.00	295	0.4	155	5.37	0.000	0.000	98	0.015	5
LF Showerhead	15	2	13	16	2	14	93	0.00	0.07	3,271	1.5	465	6.22	0.000	0.037	1,636	0.116	36
Faucet Aerator	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Lighting	36	36		263	263		2,460	1.8	3.3	17,140	-	-	68.33	0.050	0.092	476	-	-
Capsylite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	29	29		97	97		914	0.56	1.03	5,333	-	-	31.53	0.019	0.036	184	-	-
CFL (23W)	33	33		153	153		1,364	1.08	1.99	10,246	-	-	41.34	0.033	0.060	310	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	9	9		13	13		182	0.16	0.30	1,560	-	-	20.17	0.018	0.034	173	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	4	4		4	4		3,000	0.43	0.40	3,477	-	-	750.00	0.107	0.100	869		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	4	4		4	4		3,000	0.43	0.40	3,477	-	-	750.00	0.107	0.100	869	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 47 Total Households with Spending and/or Energy Impacts:

Total		**4,895**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	37	4,895	132.31
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs **71,724**

Grand Total of Expenditures **71,724**

Polk County
Calendar Year 2003 Estimates
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by End-Use: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings: Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Peak-Day therms	Annual therms
OVERALL	**29**	**24**	**28**			**56,620**	**3.5**		**3.0**		**17,579**	**48**	**4,617**	**1952.40**	**0.092**		**0.066**		**732**	**1.704**	**165**
Shell & Htg. Sys.	29	21	28	20	28	48,073	1.9	2,312	1.0	1,506	3,818	46	4,209	1657.67	0.096	116	0.035	54	182	1.646	150
Wall Insul.	19	14	18	14	12	16,559	0.64	769	0.49	751	1,521	20	1,788	871.53	0.046	55	0.041	63	109	1.085	99
Ceiling Insul	24	18	23	16	15	11,157	1.24	1,501	0.23	348	1,849	9	801	464.88	0.078	94	0.015	23	103	0.382	35
Infil. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	13	11	13	11	11	6,285	0.03	42	0.25	382	424	7	678	483.46	0.003	4	0.023	35	39	0.574	52
Bandjoist Insul.	10	7	10	-	7	677	0.00	0	0.02	25	25	1	47	67.72	-	-	0.002	4	4	0.051	5
Hi-Eff Htg Sys Repl	8	0	8	-	0	13,394	0.00	0	0.00	0	0	10	895	1674.29	-	-	-	-	-	1.223	112
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Peak-Day therms	Annual therms
Water Heating	25	0	25	47	0	47	1,964	0.0	0.0	0	1.6	408	78.56	-	-	-	-	16
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	10	0	10				129	0.00	0.00	0	0.1	37	12.90	-	-	-	0.011	4
LF Showerhead	9	0	9	9	0	9	57	0.00	0.00	0	0.7	202	6.33	-	-	-	0.073	22
Faucet Aerator	19	0	19	34	0	34	78	0.00	0.00	0	0.2	56	4.11	-	-	-	0.010	3
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	4	0	4	4	0	4	1,700	0.00	0.00	0	0.7	113	425.00	-	-	-	0.173	28
Lighting	18	18		108	108		1,080	0.6	1.2	5,938	-	-	60.00	0.035	0.064	330	-	-
Capsylite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Capsylite, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	18	18		108	108		1,080	0.62	1.15	5,938	-	-	60.00	0.035	0.064	330	-	-
CFL (23W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Refrigerator/Freezer	9	9		9	9		5,503	0.96	0.90	7,823	-	-	611.45	0.107	0.100	869		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	9	9		9	9		5,503	0.96	0.90	7,823	-	-	611.45	0.107	0.100	869	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 29 Total Households with Spending and/or Energy Impacts:

Total		**8,377**	
Unspecified Insul.	0	0	0.00
Duct Insulation	0	0	0.00
Duct Sealing	0	0	0.00
Damming Materia	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Space Heater Repl	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clear	0	0	0.00
Unspecified Utility Meas	0	0	0.00
Asbestos Abatement	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
Preservation	0	0	0.00
Roof Repairs	0	0	0.00
General Repairs	0	0	0.00
Evaluator Labor	0	0	0.00
Inspector Labor	0	0	0.00
Eval/Insp Labor	0	0	0.00
Meter Refrig (no action	0	0	0.00
Meter Freezer (no action	0	0	0.00
Support	27	8,377	310.27
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr Misc	0	0	0.00
Client Contr Refr	0	0	0.00
Warehouse	0	0	0.00
Unspecifed	0	0	0.00

Total Reported Materials, Labor, and Support Costs	**64,997**
Grand Total of Expenditures	**64,997**

APPENDIX A -- CLIENT CHARACTERISTICS

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Household characteristics												
Quarterly gross inco	$2,305	$2,338	$2,455	$2,655	$2,693	$2,759	$2,987	$2,834	$3,285	$3,488	$3,282	$3,363
Average members			2.9	2.8	2.7	2.7	2.7	2.5	2.5	2.6	2.6	2.6
Percentage of households with:												
Elderly		9.5	29.2	34.8	35.8	37.2	37.9	40.7	42.0	42.4	42.5	38.9
Handicapped		7.2	25.7	30.6	34.0	37.1	36.8	41.6	44.0	49.6	47.6	47.3
Young children		18.7	14.6	20.1	22.1	19.3	20.1	17.8	18.0	18.0	NA	15.8
Housing type (%)												
Single family home	84.2	88.0	88.7	87.9	87.7	90.3	88.5	85.0	92.0	91.3	92.4	92.9
Mobile home	6.3	4.7	5.3	5.4	6.6	5.6	6.9	8.4	7.0	7.4	7.4	5.8
Duplex	1.7	2.6	3.1	1.9	2.7	1.6	1.2	2.6	0.0	1.3	0.0	0.4
Three+ unit apartm	5.1	4.5	1.9	1.3	0.4	0.8	0.9	1.3	0.0	0.0	0.1	0.9
Rent a room	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown/other	2.0	0.1	1.1	3.5	2.6	1.7	2.6	2.6	1.0	0.0	0.0	0.0
Heating system type (%)												
Natural gas	72.4	70.7	75.0	76.1	80.0	82.4	80.7	81.1	81.0	85.2	84.5	85.5
Propane	14.5	14.3	15.4	13.7	13.4	11.8	13.6	11.9	14.0	11.2	11.8	11.4
Fuel oil	5.3	5.8	5.1	4.3	3.3	3.8	2.1	2.1	3.0	1.9	1.4	1.4
Electricity	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.2	85.5
Other	7.7	9.1	4.4	5.9	3.3	2.0	3.5	4.8	2.0	0.1	0.0	0.0
Air conditioning type (%)												
Central	25.5	23.1	21.6	24.7	27.6	30.5	32.9	31.6	39.0	40.0	41.6	44.1
Room	30.3	29.3	42.5	41.3	44.6	41.3	43.9	45.7	46.0	46.4	44.5	39.4
None	44.2	47.6	34.6	34.0	27.8	28.3	23.2	22.7	16.0	13.6	13.9	16.5
Blower door readings (average cfm50)												
Pre	3,710	3,370	3,455	3,521	3,595	3,487	3,403	3,356	3,191	3,531	3,555	3,642
Post	2,174	2,164	2,296	2,296	2,334	2,337	2,261	2,377	2,443	2,302	2,341	2,348